

U. S. AIR FORCE  
SPECIFICATION  
BULLETIN

NO. 505  
18 June 1959

PARACHUTES, PERSONNEL, TESTING  
STANDARDS FOR

1. SCOPE AND PURPOSE

1.1 This bulletin applies when called out in a specification or other Air Force document. It establishes testing standards for the development testing of experimental man-carrying parachute assemblies and components thereof and outlines the general types of personnel parachutes and specific test procedures.

2. REQUIREMENTS

2.1 DATA AND MATERIALS. The following data, drawings, instructions and materials in support of the testing standards shall be submitted in duplicate to the cognizant research and development activity designated by the procuring activity for review and approval.

- a. Schematic or outline drawings of the parachute assembly.
- b. Data covering average permeability of each canopy.
- c. Written description of the sequence of operation of the primary parachute system to include performance and schematics.
- d. Written description of the sequence of operation of the reserve or auxiliary parachute system to include performance and schematics when integral with a premeditated jump-type parachute or emergency-type parachute.
- e. Drawings and specifications descriptive of the components to include type, size, construction, materials, et cetera.
- f. Detailed specifications of actuating, sensing, and release devices, drogue guns, disconnects, et cetera.
- g. Detailed test program and procedures for component and parachute assembly testing to include government facilities and equipment required.

FSC 1670

USAF and Navy  
review(s) completed.

USAF SPECIFICATION  
BULLETIN NO. 505

2.2 TYPICAL PARACHUTE RECOVERY SYSTEMS. Parachute recovery systems shall be within the limits of human tolerance as defined in MIL-C-25969 and categorized as follows:

a. Emergency-Type Parachute - Parachutes of this type shall be fully or semi-automatic for utilization with ejection-seat-equipped aircraft, or non-automatic or semi-automatic for other emergency escape applications.

b. Premeditated-Jump-Type Parachutes - Parachutes in this category shall normally be static line, timer, or otherwise automatically activated for the express purpose of aerial delivering combat, rescue, intelligence, or special purpose personnel. All premeditated-jump-type parachutes shall include a reserve or auxiliary parachute for emergency utilization. The secondary parachute shall be manually operated.

2.3 TESTING STANDARDS. The following test procedures establish the minimum acceptable standards for testing personnel parachute assemblies and components thereof. Parachute assemblies or components which have been proven under conditions similar to those prescribed herein shall be acceptable.

2.3.1 PARACHUTE ASSEMBLY TESTING

2.3.1.1 RATE OF DESCENT TESTING. Five parachutes shall be utilized to complete a series of 10 tests. The permeability of each canopy shall be checked prior to test. A rubber dummy (torso or bent form) weighting 200 pounds shall be dropped at 120 knots indicated airspeed and at an altitude that will permit parachute inflation at approximately 1,000 feet above the terrain. Static line or timer actuation is acceptable. Phototheodolite recordings of descent rate are desirable; however, if phototheodolite is not available, the drop line method of determination outlined in 2.3.1.1.1 and 2.3.1.1.2 may be substituted.

2.3.1.1.1 DROP LINE RIGGING. A 300-foot length of nylon suspension line, measured under 20 pounds tension and conforming to Type III of MIL-C-5040, shall be attached to, and neatly wound around, a lead ball approximately 3 inches in diameter; a length of white sheeting approximately 3 by 18 inches shall be attached to the ball for identification purposes. The rolled drop line shall then be placed in a sack-type container of suitable size and secured therein with a standard temporary locking pin which passes through a bungee-type loop to lock the cover. The container shall be attached to the dummy with the cover end of the container positioned towards the feet. A short length of nylon cord in accordance with

USAF SPECIFICATION  
BULLETIN NO. 505

Type III of MIL-C-5040 shall be attached to the temporary locking pin and a parachute connector link. The slack in this line shall be kept to a minimum. The end of the rolled drop line shall be securely tied to a parachute leg strap or saddle. Upon parachute opening, the extending riser shall withdraw the locking pin and permit the weighted line to hang beneath the dummy.

2.3.1.1.2 DROP LINE RECORDING. The rate of descent for each test shall be recorded by a minimum of two observers. Each observer shall be equipped with an accurate stopwatch and shall record impact intervals between the lead ball and the dummy. Observed descent times shall be averaged and the average converted to feet per second. Line length lost through knots or entanglement shall be measured and deducted from the original 300 feet prior to feet-per-second conversion. Descent rates shall be corrected to standard NASA atmosphere at sea level and averaged.

2.3.1.1.3. ADDITIONAL RATE OF DESCENT TESTING. In addition to the tests specified in 2.3.1.1, premeditated jump-type parachutes shall be subjected to rate of descent tests with dummies weighing 250, 300, and 350 pounds. Five tests at each weight are required.

2.3.1.2 TWISTED LINE TESTING. Four parachutes shall be tested. Ten tests on each parachute are required. Each parachute to be tested shall be rigged to a 250 pound rubber dummy and launched with a 15 foot static line from an altitude of 500 feet above the terrain at an indicated airspeed of 110 knots, or the safe minimum airspeed greater than 110 knots of the most suitable aircraft available. The launching method shall insure minimum dummy rotation. Each parachute tested shall be prepared for test in accordance with 2.3.1.2.1 and 2.3.1.2.2.

2.3.1.2.1 PREPARATION FOR TWISTED-LINE TESTING. Each parachute shall be subjected to permeability determination prior to testing. Permeability measurements shall conform to the specification governing the canopy material. Parachute canopies constructed of materials having an average permeability in the lower half of the specification permeability range may constitute not more than one-half of the test quantity.

2.3.1.2.2 PACKING PROCEDURE FOR TWISTED-LINE TESTING. The parachute canopy shall be folded in the prescribed or proposed manner. For parachutes utilizing deployment bags or other deployment aids, the stows of lines which close or lock the deployment bag or the lines which emerge from a closed deployment bag shall be inserted in the manner proposed for standard usage. Three 360-degree twists in either direction shall then be placed in the

USAF SPECIFICATION  
BULLETIN NO. 505

suspension lines immediately below the point at which the bag is locked closed, or the point at which the lines emerge from the bag when locked closed by other than the suspension lines. The three twists shall extend from the locking or emergence point a maximum of 30 inches. The twisted and non-twisted portions of suspension line shall then be stowed in the manner proposed, particular care being exercised to prevent the twisted portion of the lines from exceeding the 30-inch maximum length. If due to increased girth, difficulty is encountered in stowage of the twisted portion, the line retaining member, for test purposes, may be modified to obtain the desired retention characteristics. For parachutes that do not utilize a deployment bag the three 360-degree twists shall be placed immediately below the canopy skirt for a length not in excess of 30 inches and the lines stowed as proposed for standardization.

2.3.1.2.3 TWISTED LINE TEST CRITERIA. All test parachutes shall be fully inflated and in equilibrium prior to ground impact. Forty consecutive tests, without failure, are required.

2.3.1.3 RELIABILITY TESTING

2.3.1.3.1 EMERGENCY TYPE PARACHUTES. Five parachutes shall be utilized for a total of 25 tests. The permeability of each canopy shall be inspected prior to testing. Each parachute shall be rigged to an articulated dummy weighing 250 pounds and all tests shall be conducted from an altitude of 1,500 feet above the terrain. Parachute actuation shall occur 5 seconds after launching. Five tests are required at an indicated airspeed of 110 knots and five tests at 150 knots. The remaining tests shall be conducted by increasing the launching speed in 50-knot increments for each group of five tests, until testing has been completed at 300 knots.

2.3.1.3.2 PREMEDITATED-JUMP-TYPE PARACHUTES. Five parachutes, the canopies of which have been subjected to permeability inspection shall be utilized for a total of 20 tests. Each parachute shall be rigged to a 250-pound articulated dummy and launched from an altitude of 1,000 feet above the terrain. The parachutes shall be activated via the static line or other method proposed for standardization. Four tests shall be made at an indicated airspeed of 110 knots, four tests at an indicated airspeed of 150 knots, and the remaining tests in groups of four at increased airspeed increments of 50 knots.

2.3.1.4 LOW-ALTITUDE TESTING. The permeability of each canopy shall be inspected prior to testing. The use of a phototheodolite is recommended for determination of the minimum altitude required for complete parachute inflation in the launching speed ranges specified in 2.3.1.4.1.1, however, calculations recorded in conjunction with



USAF SPECIFICATION  
BULLETIN NO. 505

the testing specified in 2.3.1.1, 2.3.1.2, and 2.3.1.3 may be utilized if phototheodolite coverage is not available. In the absence of reliable data, testing shall start at 500 feet and be adjusted to the minimum altitude required for safe recovery under the required airspeed conditions. The minimum safe altitude is considered to be the highest altitude required for full parachute inflation of all test parachutes throughout the test range.

2.3.1.4.1 LOW-ALTITUDE TEST TECHNIQUES

2.3.1.4.1.1 Four parachutes rigged to 250-pound rubber dummies shall be launched for a total of eight tests at a near zero airspeed and at the minimum calculated altitude required for complete canopy inflation. Parachute activation shall be through the medium of a 15-foot static line unless, for standardization, a line of another length is proposed. On the basis of test findings, a minimum reliable altitude shall be established for use with liaison, rotary wing, and other low performance aircraft.

2.3.1.4.1.2 Four parachutes shall be rigged to 250-pound rubber dummies and dropped at an airspeed of 200 knots at the altitude determined by tests specified in 2.3.1.4.1.1. The tests shall be repeated for speeds of 150 and 110 knots. The altitude shall be adjusted to the minimum compatible with reliable parachute opening at each airspeed. Three consecutive successful tests shall then be made at each adjusted reliable minimum altitude. Three consecutive successful drops at the same altitude and airspeed during the altitude adjustment phase are acceptable.

2.3.1.5 ULTIMATE STRENGTH AND OPENING FORCE TESTING. Five new parachutes are required for a minimum of 30 tests. Each parachute shall be rigged to a 350-pound dummy and dropped at an altitude of 1,000 feet. A static line of proposed design length or timer controlled, one second delay, shall be used for parachute activation. A tensiometer shall be utilized to record opening forces. Parachutes destroyed at the lower airspeeds shall be replaced with new parachutes. A whirl tower may be utilized in lieu of aircraft, provided whirl-tower versus aircraft-conversion curves are provided for each test.

2.3.1.5.1 ULTIMATE STRENGTH TEST PROCEDURE. Parachutes shall be rigged to 350-pound dummies. Five tests shall be made at 110 knots and five tests at 150 knots. The remaining tests shall be conducted in groups of five at airspeed increases of 50 knots per group until tests have been completed at 400 knots or until parachute destruction occurs. Additional tests, as required, shall be conducted to establish destruction speed within 25 knots.

USAF SPECIFICATION  
BULLETIN NO. 505

2.3.1.6 AIRBLAST TESTING. This test phase applies to emergency-type parachutes and premeditated-jump-type parachutes designed for utilization with high-speed aircraft. Four test parachutes are required for a total of 10 tests. Each test parachute shall be rigged to a 250-pound articulated dummy. All tests shall be conducted from 2,000 feet or the minimum altitude required for safety of flight. Parachute activation shall be as determined by the testing activity, but shall be not less than 5 seconds after launching. Four tests shall be conducted at 300 knots. Two tests shall be conducted at increasing airspeed increments of 100 knots until an indicated airspeed of 600 knots has been attained. Final pack destruction speed shall be determined within 50 knots.

2.3.2 COMPONENTS TESTING. Parachute assembly components such as sensing devices, release mechanisms, disconnects, drogue guns, et cetera, shall be tested with the related parachute assembly. Parachute assembly and component testing shall include:

a. Ground (bench) tests

- (1) Life cycling
- (2) Harness styling and comfort
- (3) Hardware function
- (4) Ultimate strengths
- (5) Maintenance analysis

b. Environmental tests

- (1) Acceleration
- (2) Vibration
- (3) Shock
- (4) High temperature
- (5) Low temperature
- (6) Sand and dust

USAF SPECIFICATION  
BULLETIN NO. 505

- (7) Humidity
- (8) Salt spray
- (9) Aneroid pressure
- (10) Fungus

2.3.3 LIVE JUMP TESTING. Parachute assemblies or components thereof that do not meet the established test standard, or are marginal in reliability, shall not be subjected to live-jump testing until proven to be safe beyond reasonable doubt. Parachute assemblies or components that have been modified to affect performance shall be subjected to complete or partial retest prior to live jump when considered necessary by the testing activity. The number of assemblies or components required and tests to be performed shall be determined on the basis of the successful completion and acceptance of tests conducted under 2.3.1 and 2.3.2.

2.3.3.1 MINIMUM AND MAXIMUM AIRSPEED TESTING. The results of tests conducted under 2.3.1.3, 2.3.1.4, and 2.3.1.5 shall be evaluated to determine the airspeed range acceptable from the parachute reliability and human tolerance aspect. Tests shall be initiated at the established minimum airspeed and continued at increased increments of 25 knots for emergency-type parachutes and 10 knots for premeditated-jump-type parachutes until tests have been completed at the established maximum. Ten tests per speed increment are required. Minimum altitude shall be as determined by the testing activity; it shall be constant throughout the test phase and shall, under no condition, be below 1,500 feet above the terrain. Premeditated-jump-type parachutes shall be activated by the method proposed for standardization. Emergency-type parachutes shall be activated by the jump and pull method. In each test the automatic release shall be armed prior to aircraft exit. Unless otherwise specified, the airspeeds specified in this bulletin are indicated airspeeds in knots.

2.3.3.2 OPTIMUM EXIT TECHNIQUE TESTING. Test criteria shall be as specified in 2.3.3.1 and may be concurrent with 2.3.3.1. Optimum exit techniques shall be determined at the minimum, median, and maximum airspeeds. Ten tests are required at each established airspeed. This test phase applies only to premeditated-jump-type parachutes.

2.3.3.3 GENERAL EVALUATION TESTING. Three hundred tests are required. Altitude and airspeed requirements shall be as determined by the testing activity and shall encompass the entire

USAF SPECIFICATION  
BULLETIN NO. 505

range of safe and reliable operation established by previous tests. Tests shall be equitably distributed to provide adequate data relative to parachute assembly and component functions under closely simulated operational conditions. Testing shall determine recommended techniques of use, depth of training required, replacement requirements, and human subject reaction.

2.3.4 SPECIAL PURPOSE TESTING. Parachute assemblies or components designed for special-purpose application shall be subjected to the tests specified in 2.3.5. Test conditions and the quantity required shall be predicated on the design characteristics of the parachute proposed for standardization and, in the absence of a detail specification, shall be as determined by the testing activity.

2.3.5 OPTIONAL TESTING. Special-purpose parachute assemblies and components shall be subjected to the following tests as applicable:

a. Drift, inherent and induced, under varying wind and load conditions shall be determined. Phototheodolite, Askania, or equally accurate methods of test recording are required.

b. Maneuverability, when a design feature, shall be determined. Testing shall include controlled rate of turn controlled rate of descent, techniques of use, ease of operation, and the determination of other characteristics that are designed to result in deviation of the parachute from a normal flight path.

c. Stabilizing devices, staged deployment systems, timing devices, et cetera, shall be tested as proposed for standardization and in accordance with detail specifications or other test programs as applicable.

d. Aircraft ejection - Where practical and equipment availability permits, emergency parachutes shall be tested in actual dummy and live ejection tests.

e. Other tests - This bulletin is not limiting in scope of tests which may be conducted. The contractor or cognizant research and development activity may suggest, request, or require additional testing within the state-of-the-art to be included in the program.

USAF SPECIFICATION  
BULLETIN NO. 505

2.3.6 PERMEABILITY DATA. The average permeability of each canopy to be tested shall be determined from three readings obtained in each section of every fifth gore. The individual reading procedure shall be in accordance with Method 5450 of CCC-T-191 and any specific requirements of the specifications applicable to the cloth in the submitted canopies.

(Copies of documents required by contractors in connection with specific procurement functions should be obtained from the procuring activity or as directed by the contracting officer.)

KLM/GIB/ca  
WCLE

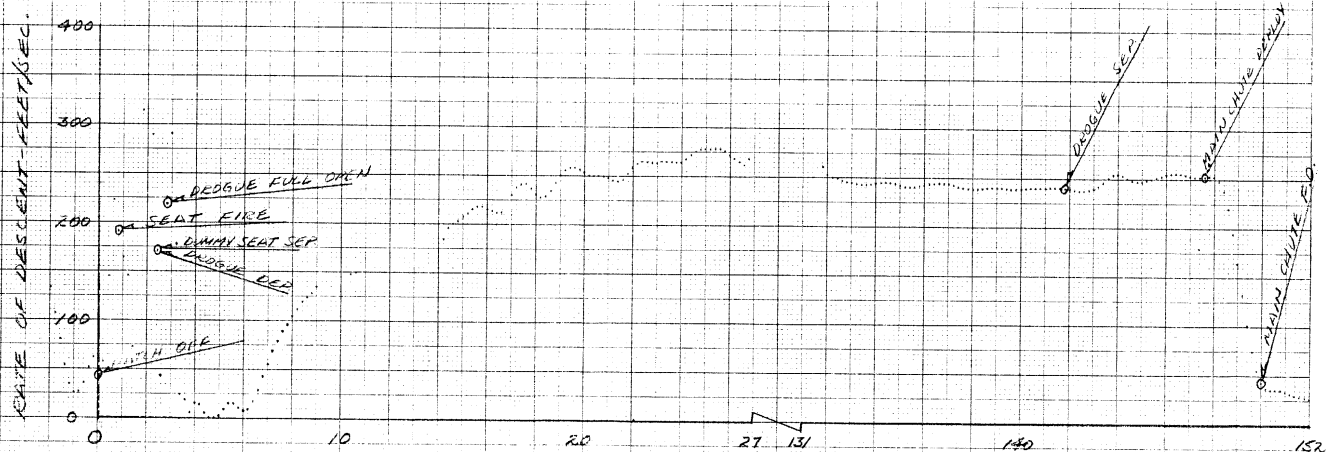
**SECRET**

Produced by FLCM HQ  
 Document Control # 17-11111  
 No. of Copies Reproduced 2  
 Reproduction Authorized by: \_\_\_\_\_  
 (Signature of Individual Authorizing Reproduction)

VIC-9341  
 DROP NO. 0999  
 DATE- 11 JULY 63  
 LAUNCH SPEED-  
 LAUNCH ALTITUDE-

RATE OF DESCENT VS TIME

DES TESTS  
 F-106 B  
 DUMMY/SEAT GROSS WT. LBS.  
 4 SEC. SEAT SEP.

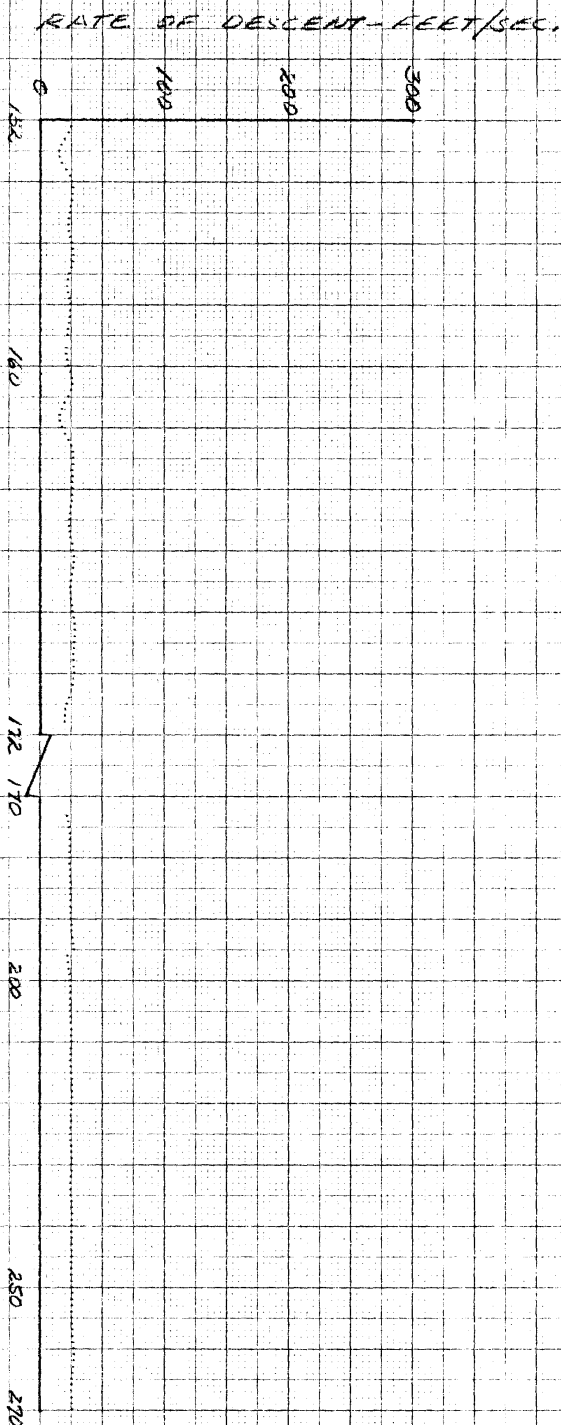


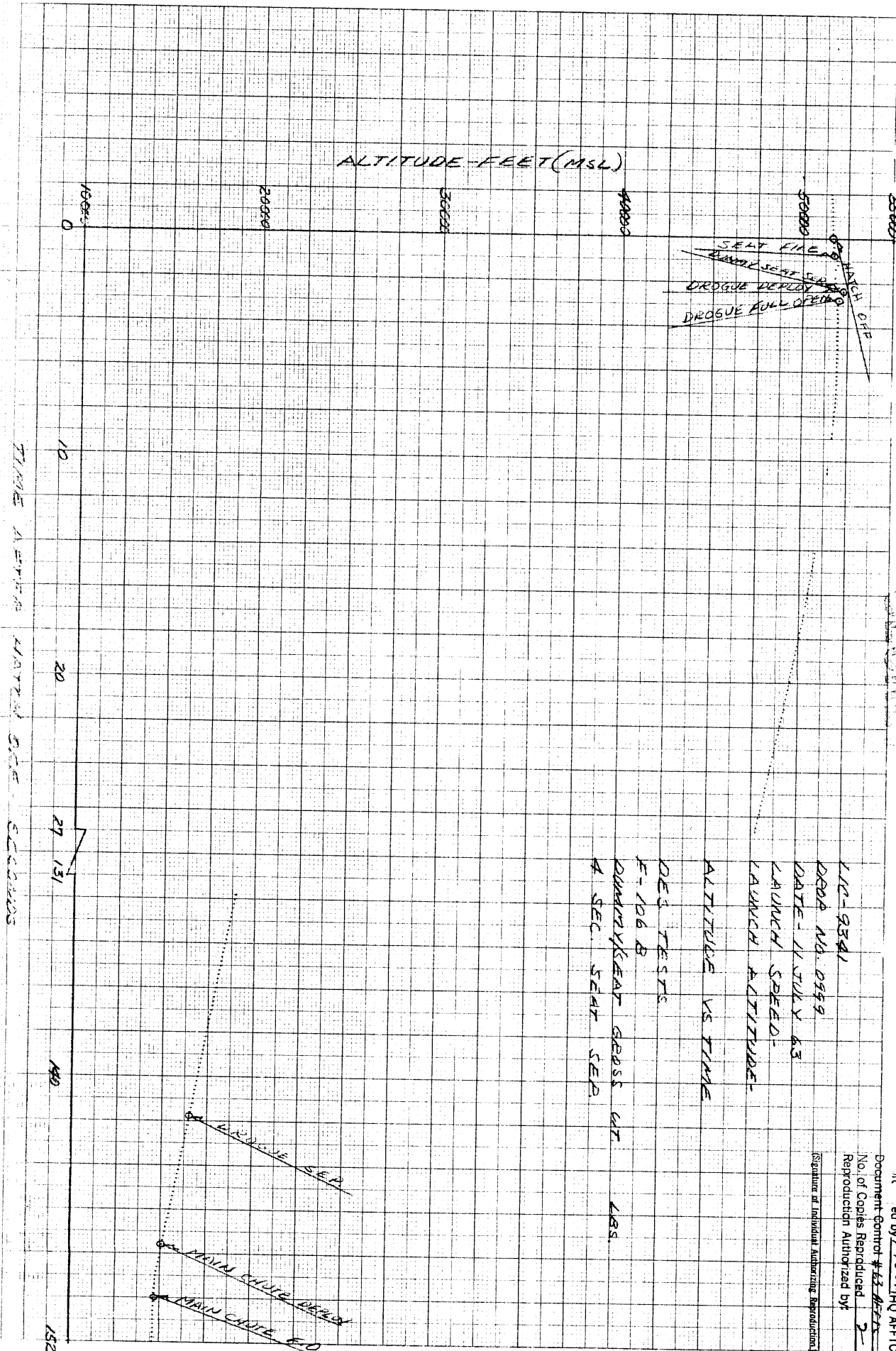
SECRET

Produced by FICM, HQ AFMTC  
 Document Control # 13 MTT-1488  
 No. of Copies Reproduced 2  
 Reproduction Authorized by:

LIC-9381  
 DEAD NO. 0399  
 DATE - 11 JULY 63  
 LAUNCH SPEED -  
 LAUNCH ALTITUDE -  
 RATE OF DESCENT VS TIME

DES TESTS  
 F-106 B  
 DUMMY/SEAT GROSS WGT. 485.  
 4 SEC. SEAT SEP.





SECRET

LIC-9341  
 DROGUE NO. 0349  
 DATE - 11 JULY 63  
 LAUNCH SPEED -  
 LAUNCH ALTITUDE -  
 ALTITUDE VS TIME  
 DES TESTS  
 F-106 B  
 DUMMYS/SEAT SEAT SEP  
 4 SEC. SEAT SEP

Document Control # 63-4571-1  
 No. of Copies Reproduced 2  
 Reproduction Authorized by  
 Signature of Individual Authorizing Reproduction



SECRET

LIC- 9341

DEEP NO. 0999

DATE - 11 JULY 68

LAUNCH SPEED -

LAUNCH ALTITUDE -

ALTITUDE VS TIME

DES TESTS

F-106B

EXHAUST/SEAT CROSS WT 4.85

4 SEC. SEAT SEP.

ALTITUDE - FEET (MSL)

20000

10000

0

160

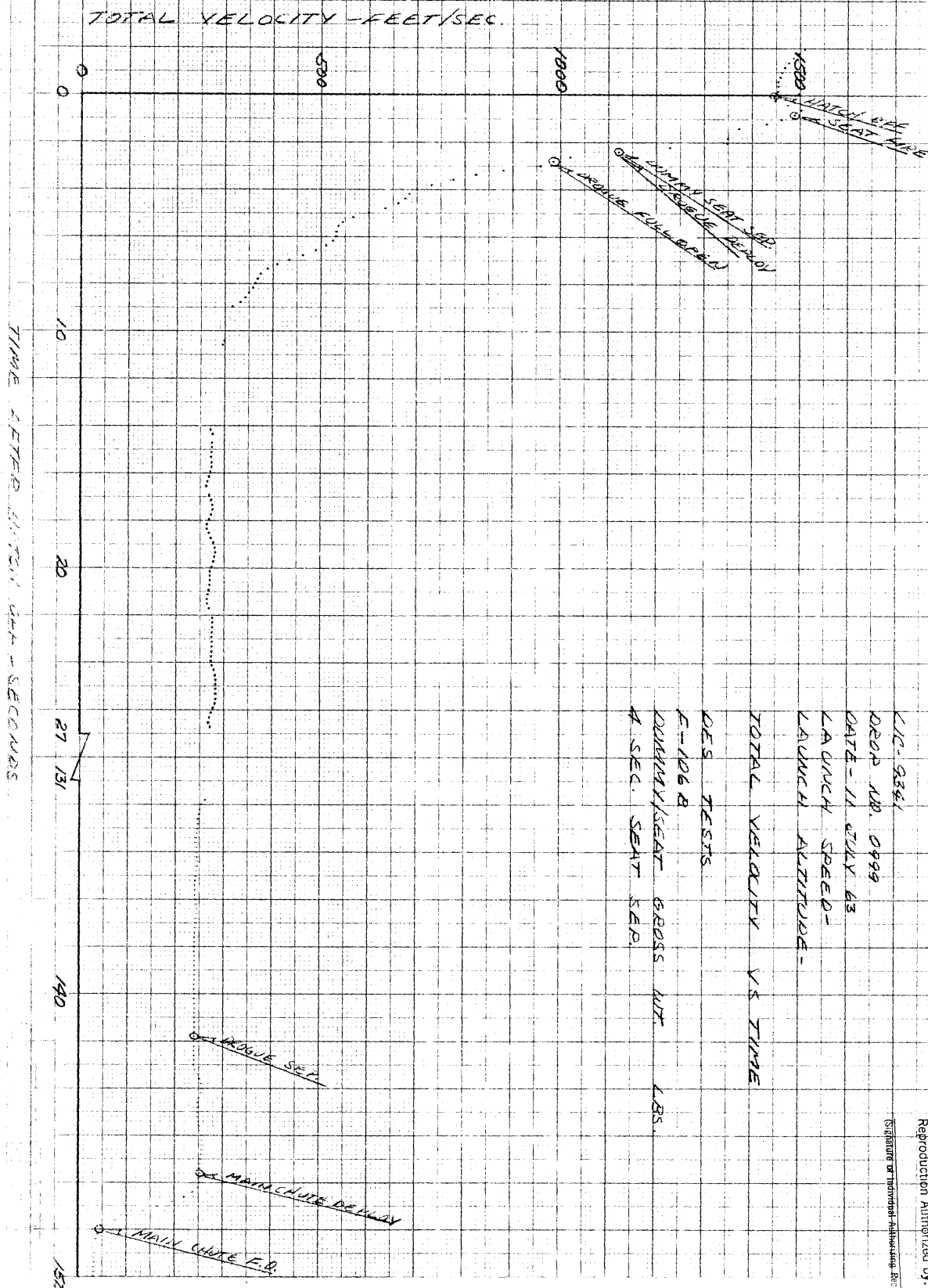
172 170

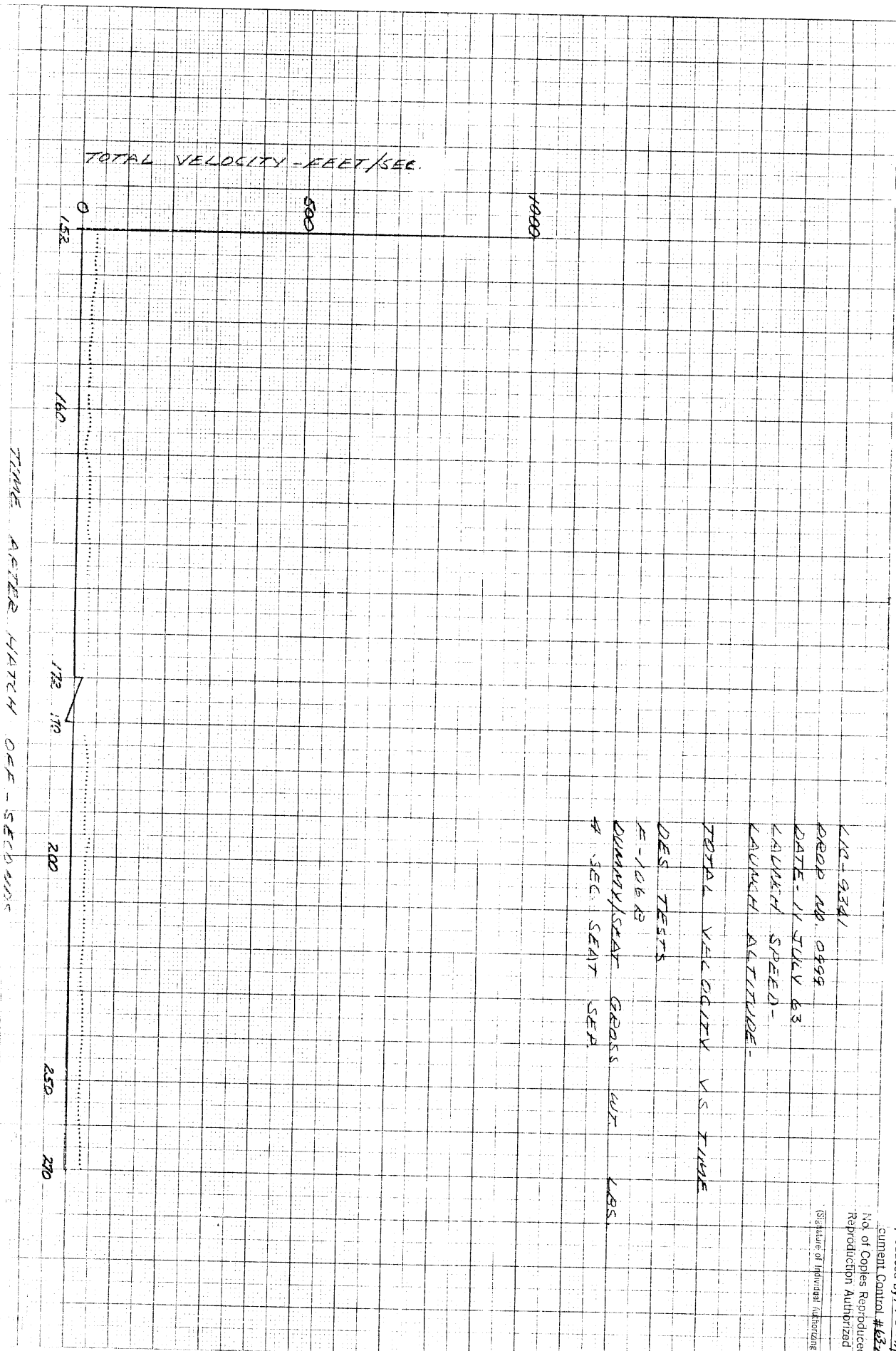
210

210

TIME AFTER IGNITION OFF - SECONDS

Reproduced by F7614 HQ 157  
Document Control # 13 10 11 14 15 16  
No. of Copies Reproduced 2  
Reproduction Authorized by:  
(Signature of Individual Authorizing Reproduction)





LIA-9341  
 PROD NO. 0499  
 DATE - 11 JULY 63  
 LAUNCH SPEED -  
 LAUNCH ALTITUDE -  
 TOTAL VELOCITY VS TIME  
 DES TESTS  
 E-106 AB  
 DUMMY/SEAT GROSS WT. LBS.  
 # SEC. SEAT SEA

Reproduced by F7 & C91HQ AFMCO.  
 Current Control #6344776 1433  
 No. of Copies Reproduced: 7  
 Reproduction Authorized By:  
 (Signature of Individual Authorizing Reproduction)

**SECRET**

Reproduced by FTL 611 HQ AFTC  
 Dc. m. Control # 63 RPT 6-1958  
 No. of Copies Reproduced 2  
 Reproduction Authorized by: \_\_\_\_\_  
 Signature of individual authorizing reproduction: \_\_\_\_\_

LOG-3341  
 DROP NO. 0399  
 DATE - 11 JULY 63  
 LAUNCH SPEED -  
 LAUNCH ALTITUDE -

ALTITUDE VS. HORIZONTAL DISTANCE

DES TESTS  
 F106 B  
 DUMMIE/SEAT GRASS W/ LBS.  
 4 SEC. SEAT SEP.

ALTITUDE - FEET (MSL)

50000  
 40000  
 30000  
 20000  
 10000  
 0

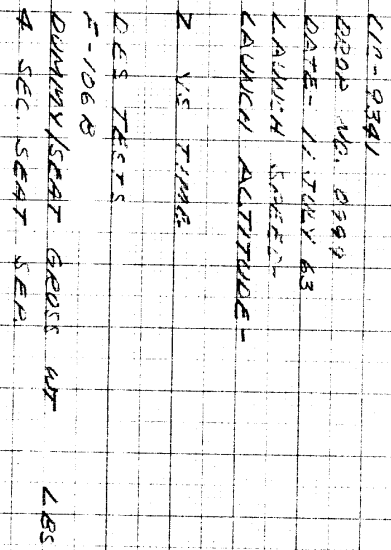
0

5000

10000

15000

HORIZONTAL DISTANCE - FEET - HORIZONTAL G.F.E.



(Signature of Individual Authorizing Reproduction)

# DROP TOWER TESTS

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

TEST CONDITIONS							INSTRUMENTATION DATA			RESULTS	REMARKS
TEST NUMBER	DROP NUMBER	DATE	GROSS WEIGHT	DROP HEIGHT	DROP POSITION	LOAD TRANSMITTED THRU	LEFT RISER * FORCE	RIGHT RISER * FORCE	TOTAL PEAK ** FORCE		
1	1055	7-1-64	302	26'	Feet Down	Drogue Risers	4450	4550	7550	Left side pack-vest seam opened up approximately 4 inches from point where pan widens and on down pack (Refer to photo 15149)	Cause of pack damage attributed to too much slack in the horizontal back strap.  Automatic actuators & emergency oxygen systems performed satisfactorily after test.
2	1056	7-1-64	302	25'	Back Down	Drogue Risers	5400	5400	4100 *	Same as above	Same as above  * Probable low value due to shock absorption characteristics of webbing
3	1057	7-6-64	302	28'	Head Down	Drogue Risers	4850	3700	6700	Main canopy deployed & drogue risers released when actuators armed & fired when shocked.  Cable hooking bosses on drogue releases broken off.  Pack stiffener fabric seams opened 3 inches both sides at pack retention straps (minor damage) side seams opened approx. 1 inch (minor damage) (refer to photos 15163, 15164, 15165).	Refer to text of report.  Cause of broken bosses attributed to bending action of steel neck of dummy on housings.  Pan and webbing modified to remove excess slack at horizontal back strap (refer to photos 15268, 15269) No pan damage, emergency oxygen - O.K.
4	1058	7-6-64	281	25'	Feet Down	Main Risers	4450	4350	8700	O.K. - No damage	No actuators or canopies in pack. Emergency oxygen - O.K. Same modification as above & incorporated for remainder of the program.
5	1059	7-6-64	281	25'	Back Down	Main Risers	3700	3700	5800	O.K. - No damage	No actuators or canopies in pack. Emergency oxygen - O.K.
6	1060	7-6-64	285	28'	Head Down	Main Risers	3150	3800	5500	Wrap around keeper on right main lift web stitching torn out. Vest torn loose from harness, rear cross strap attachment to top of vest threads torn (refer to photos 15161, 15162)	Cause of damage attributed to down peeling of webbing to the keeper and because this was 4th maximum strength test performed on this harness.  Drogue packed, no actuators installed, emergency oxygen - O.K.
										* Left & right riser forces obtained from Brinzel Gauges  ** Total peak forces obtained from tensioner	

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

# WHIRL TOWER TESTS

FORM 1 OF 2

TEST CONDITIONS										TIME (SEC) * FILM Ø STOP- WATCH		TM DATA				RESULTS	REMARKS
DROP NUMBER	DATE	GROSS WEIGHT	SPEED KNOTS	RPM	ALTITUDE FEET	DISTANCE TO IMPACT, FT.	TIME TO FULL OPEN MAIN	TIME TO IMPACT	PEAK LEFT RISER	PEAK RIGHT RISER	PEAK BOTH RISERS	CANOPY DAMAGE					
TEST NO. 57000400020050-1																	
1094	7-7-64	257	90	8.4	90	311	3.1* 3.4* 3.6Ø 3.7Ø		1000	450	1300	NONE	-	Good deployment & recovery No actuators packed Drogue packed			
1095	7-7-64	251	90	8.4	90	286	3.7Ø 3.7Ø		700	700	1200	NONE	-	Questionable full opening before impact No actuators packed Drogue packed			
1096	7-7-64	251	90	8.4	90	354	3.0* 3.3* 3.5Ø 3.6Ø		-	-	-	NONE	TM instrumentation failed	Good deployment & recovery No actuators packed Drogue packed			
1097	7-8-64	257	90	8.4	90	306	1.8* 2.1* 3.2Ø 3.4Ø		700	700	1400	NONE	-	Good deployment & recovery No actuators packed Drogue packed			
1098	7-8-64	251	120	11.3	109	309	3.3* 3.6Ø 4.1Ø		1200	1200	2400	NONE	-	Good deployment & recovery Actuators packed Drogue chute out & whirling			
1099	7-8-64	251	120	11.3	109	316	3.2Ø 3.3Ø		-	-	-	NONE	TM instrumentation failed	Good deployment & recovery Actuators packed, drogue out & whirling Hesitation of drogue release caused by incomplete preparation of drogue releases (detent screws not properly adjusted)			
1100	7-9-64	251	120	11.3	109	296	2.9Ø 3.9Ø		750	1000	1700	NONE	-	Good deployment & recovery Actuators packed Drogue out & whirling			

# WHIRL TOWER TESTS

TEST CONDITIONS							TIME-SEC. * FLIM Ø STOPWATCH		TM DATA				RESULTS	REMARKS
DROP NUMBER	DATE	GROSS WEIGHT	SPEED KNOTS	RPM	ALTITUDE FEET	DISTANCE TO IMPACT, FT.	TIME TO FULL OPEN MAIN	TIME TO IMPACT	PEAK LEFT RISER	PEAK RIGHT RISER	PEAK BOTH RISERS	CANOPY DAMAGE		
1101	7-9-64	251	120	11.3	109	311	2.60	4.10	900	500+	1400+	NONE	-	Good deployment & recovery Actuators packed Drogue out & whirling
1102	7-9-64	257	300	28.1	123	698	4.00	4.00	3200	2900	5900	MODERATE	Par damaged on impact (refer to photo 15271) Brest strap pulled out of harness (refer to photo 15272) Pilot chute completely destroyed (refer to photo 15273) Quarter bag inverted (refer to photo 15270) Medium damage to vent cap. Light burns and strains main canopy, top 2 sections of gores #2 & 24 blown (refer to photo 15274)	Good deployment & recovery No actuators or drogue packed
1103	7-10-64	257	300	28.1	123	467	3.00	7.20	3500	3600	7100	SLIGHT	Few light burns Quarter bag damage at locking loop (refer to photo 15283) Minor tear in netting at base of pilot chute. Damaged pack fabric & wing flap seam (refer to photo 15276) Damaged drogue deploy & right drogue release housings (refer to photo 15277)	Good deployment & recovery. no actuators or drogue pack Damaged drogue deploy housing-crippled at end fitting attributed to contact with steel neck of dummy
1104	7-10-64	251	300	28.1	123	459	2.0*	6.50	3000	3100	5900	SLIGHT	Light burns & seam strains 1" seam separation at top of blew out cap flap & damaged drogue deployment, drogue pack flap & plate torn off (refer to photo 15279) Damaged pack fabric & wing flap seam (refer to photo 15278)	Good deployment & recovery No actuators or drogue packed Drogue deploy housing damaged at end fitting and drogue pack flap damage torn off - attributed to T.M. Instr. link (refer to photo 15280)
1105	7-14-64	275	300	28.1	123	411	2.30	6.20	"	-	-	SLIGHT	Light burns & seam strains on main canopy Separation of inner pan & cover material and side flap (refer to photo 15281) Minor tear in pilot chute. Minor drogue canopy & riser leakage (refer to photo 15282)	Good deployment & recovery Drogue was packed Actuators armed for unknown reason T.M. instrumentation not used for operational testing



# HIGH Q. B-66 ARTICULATED DUMMY DROPS

TEST CONDITIONS										TIME SECONDS			RATE OF DESCENT DROGUE			MAIN			RPM DROGUE			DROGUE FORCES			RESULTS	REMARKS
TEST NUMBER	DROP NUMBER	DATE	GROSS WEIGHT	SPEED KIAS	PRESSURE ALTITUDE	ACTUAL ALTITUDE	DROGUE RELEASE	MAIN OPEN	IMPACT	MAX.	MIN.	AVG.	MAX.	MIN.	AVG.	LAST 200 FT.	MAX.	MIN.	AVG.	LEFT RISER	RIGHT RISER	BOTH INSTANTANEOUS				
1	1092	7-16-64	308	300	20,000'	21,350'	-----	-----	132	197	142	170	--	--	--	--	50	39	45	1100	700	1800	Complete loss - Main Deploy - Drogue release actuator failed to function Refer to photos # 15261 thru 15269	Launch position - back down feet to line of flight. Drogue collapsed at 4400 ft. Actuators returned for inspection for latest modification. Refer to Pacific Scientific Report #101 for cause of failure.		
2	1140	7-20-64	308	300	20,000'	21,550'	37.1	38.2	797	168	155	163	24	18	20	17	22.5	9.5	18	1600	2200	3200	Minor crimp in right hand drogue release housing (Refer to photo 15331) Small burns in peak of drogue canopy No pack or harness damage	Launch position - same as above Successful Refer to photos 15329 & 15330		
3	1093	7-21-64	308	300	20,000'	21,500'	39.4	40.3	757	169	153	161	26	20	22	17	41	35	49	750	900	1650	Minor crimp in right hand drogue release housing Small burns in peak of drogue canopy No pack or harness damage	Launch position - same as above Successful Refer to photos 15284, 15306, 15307.		
4	1141	7-21-64	308	300	20,000'	21,350'	-----	-----	778	---	---	---	26	20	18	--	--	--	---	---	---	---	Small burns in peak of drogue canopy No pack or harness damage	Launch position - same as above -- TM data, film coverage (Akanda & Contraves not available) Successful		

# LIVE JUMPS

TEST CONDITIONS								TIME - SECONDS			RATE OF DESCENT DROGUE			RATE OF DESCENT MAIN			RESULTS	REMARKS	
TEST NUMBER								DROGUE RELEASE	MAIN OPEN	IMPACT	MAX.	MIN.	AVG.	MAX.	MIN.	AVG.	LAST 200 FT.		
20050-1																			
1	1125	7-27	Collins	315	110	6000	C-130	NA	3.0	296	NA	NA	NA	24	17	20	17	Satisfactory main canopy performance Satisfactory kit release & landing	Jump configuration: flying suit, boots, 45-lb. survival kit 54-lb. multi-stage test parachute, 19-lb. 28" reserve mask & regulator assembly used with emergency oxygen in pack. Manually pulled arming knob on exit. Kit released at approximately 1000'. Emergency oxygen actuated 5 min. prior to exit.
2	1126	7-27	MoIf	304	110	6000	C-130	NA	2.8	297	NA	NA	NA	23	18	20	19	Main canopy performance solid. Satisfactory kit release & landing. Slight difficulty with canopy releases.	Jump configuration: same as above.
3	1169	7-28	Collins	315	110	20000	C-130	36.1	38.6	728	178	170	175	30	11	20	16	Satisfactory drogue deployment - very slow rotation to 15,000'. Satisfactory drogue release, main deploy, kit release and landing.	Jump configuration: same as above except emergency oxygen actuated 2 minutes prior to exit.
4	1170	7-28	Powers	297	110	20000	C-130	37.2	39.7	738	180	170	177	25	17	20	18	Satisfactory drogue deployment - very slow rotation to the right. Satisfactory drogue release, firm main deploy, kit release and landing. Emergency oxygen ran out at 2000'.	Jump configuration: same as above.
5	1171	7-31	Castro	276	110	25000	C-130	65.2	67.7	799	180	163	174	25	17	20	18	Satisfactory drogue deployment - very slow rotation to the right to 18,000'. Between 18,000' & 16,000' rotation increased and became difficult to stop. Satisfactory drogue release, main deploy, kit release and landing. Emergency oxygen ran out at 4300'.	Jump configuration: same as above.
6	1172	7-31	Cherry	309	110	25000	C-130	65.2	67.7	748	194	168	180	26	16	22	20	Drogue entangled with legs momentarily on deployment, mild drogue rotation. Satisfactory drogue release, main deploy, kit release. Landing was hard. Emergency oxygen ran out at 5500'.	Jump configuration: same as above

# LIVE JUMPS

TEST CONDITIONS										TIME-SECONDS			RATE OF DESCENT			RATE OF DESCENT			RESULTS	REMARKS
TEST NUMBER	DROP NUMBER	DATE	SUBJECT	GROSS WEIGHT	SPEED KIAS	ALTITUDE	AIRCRAFT	DROGUE RELEASE	MAIN OPEN	IMPACT	MAX.	MIN.	AVG.	MAX.	MIN.	AVG.	LAST 200 FT.			
	1321	8-14	Casto	276	65	6000	H-21	NA			NA	NA	NA					Satisfactory main canopy performance and operation of suit flotation vest. Satisfactory kit release. Live raft actuation cord broke, failing to inflate raft. See jump report.	Jump configuration: Full pressure suit, 45-lb. survival kit with life raft, 24' reserve parachute, 54-lb. test parachute - main canopy deployed by manual ripcord pull on exit from helicopter. Kit released approximately 1000'.	
	1361	8-5	Powers	270	110	35000	C-130	115	113	885	225	170	184	35	15	19.8	20	Satisfactory drogue deployment - very slow rotation to the right. Satisfactory drogue release with mild main deploy Satisfactory kit release and normal landing	Jump configuration: Flying suit, boots, 45-lb. survival kit, 54-lb. multi-stage test parachute, 19-11. 28' reserve parachute, mask & regulator assembly used with emergency oxygen in pack. Manually pulled aiming knob on exit. Kit released at approximately 1000'. Emergency oxygen actuated 2 minutes prior to exit.	
	1362	8-21	Casto	276	110	35000	C-130											Satisfactory drogue deployment, rotation to the right during descent. Satisfactory drogue release, main deploy, kit release and easy landing. Emergency oxygen ran out at 8000'.	Jump configuration: Full pressure suit, 45-lb. survival kit with battery for face heat, 19-1lb. 28' reserve parachute, 54-lb. test parachute. Manually pulled aiming knob on exit kit released at approximately 1000'. Emergency oxygen actuated 2 1/2 minutes prior to exit.	

# EJECTIONS

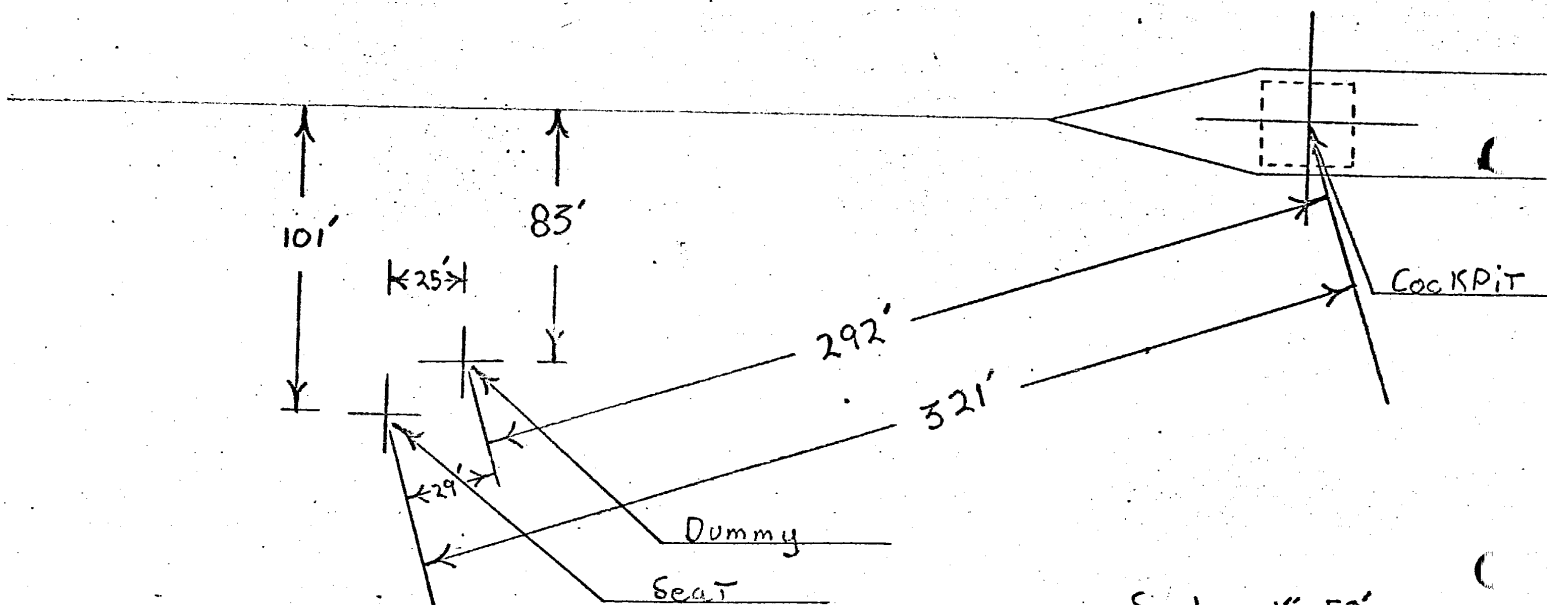
Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

TEST CONDITIONS					RESULTS																				REMARKS			
TEST NUMBER	DROP NUMBER	DATE	SPEED KIAS	ALTITUDE (1000 Feet)	EJECTED WEIGHT LB.	TO MAN SEAT SEPARATION	TO FULL OPEN MAIN	TO IMPACT	MAN-SEAT SEPARATION	PARACHUTE OPERATION	ROCKET BURN OUT (SECONDS)	MAXIMUM HEIGHT DUMMY FEET	DISTANCE TO IMPACT (FEET)	RIGHT RISER FORCE	LEFT RISER FORCE	PEAK RISER FORCE-BOTH	VERTICAL	FORWARD & AFT	LEFT TO RIGHT	VERTICAL (ROLL)	FORWARD & AFT (PITCH)	LEFT TO RIGHT (YAW)	SUIT PRESSURE " H <sub>2</sub> O	AVERAGE DROGUE	AVERAGE MAIN	CANOPY DAMAGE	RECOVERY	
1	11987864		0	0	445	NA	NA	NA	Good	OK	NA	300	292	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	None	Yes	NOTE: All ejections made from rear seat F106
SUCCESSFUL STATIC EJECTION All components operated satisfactorily - Refer to schematic.																												
-No telemetry. Accelerometer or rate gyro instrumentation used.Dummy equipped with mask and helmet assembly and survival kit.																												
2	13007304		0	0	446	1.4	-	9.7	Good	OK	.7	419	375	NA	NA	NA	18	NA	NA	NA	NA	NA	NA	NA	-	-	No	UNSUCCESSFUL STATIC EJECTION - Dummy tumbled due to seat instability. Main canopy caught on leg of dummy. Main canopy inflation probable if not hindered by leg of dummy. Refer to schematic.
Dummy equipped as above. Vertical accelerometer only instrumentation used.																												
3	1377864		0	0	449	1.29	-	9.9	Good	OK	.69	299	257	NA	NA	NA	16	NA	NA	NA	NA	NA	NA	NA	-	-	No	UNSUCCESSFUL STATIC EJECTION - Main canopy did not fully deploy because of lack of sufficient speed/pull force. Pilot chute ineffective for 2.0 sec. when entangled with arm of dummy. Deployment doubtful even if entanglement had not occurred.
Refer to schematic.																												
Dummy equipped as above.																												
Instrumentation as above.																												
4	13468124				427	-	186 *	NA	Good	OK	-	-	NA	194 **	500 **	1940 **	10.2	23.5	21	NA	750	800	51.5	-	21.5	Light	Yes	SUCCESSFUL INFLIGHT EJECTION All components appeared to have functioned satisfactorily.
Telemetry instrumentation malfunctioned at launch. Resumed normal transmission after 3 seconds.																												
Dummy equipped with full pressure suit and seat kit.																												
Riser forces noted are for drogue risers																												
** Values may not be maximum because of T.M. failure																												
* Stop watch time																												
5	146181964				450	1.6	3.1	67.6	Good	OK	-	-	NA	2050 +	1850 +	3920	20.0	11.4	15.0	60	45	89	NA	NA	-	Light	Yes	SUCCESSFUL INFLIGHT EJECTION Collision of seat and suspension line caused 5 lines to be severed. Main canopy satisfactorily recovered dummy. Telemetry instrumentation failed because antenna was cut during deployment before full open main.
Dummy equipped with mask and helmet assembly and survival kit.																												
Riser forces noted are for main risers.																												
+ Values may not be maximum because of T. M. failure.																												

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

22, July, 1964



Scale - 1" = 50'

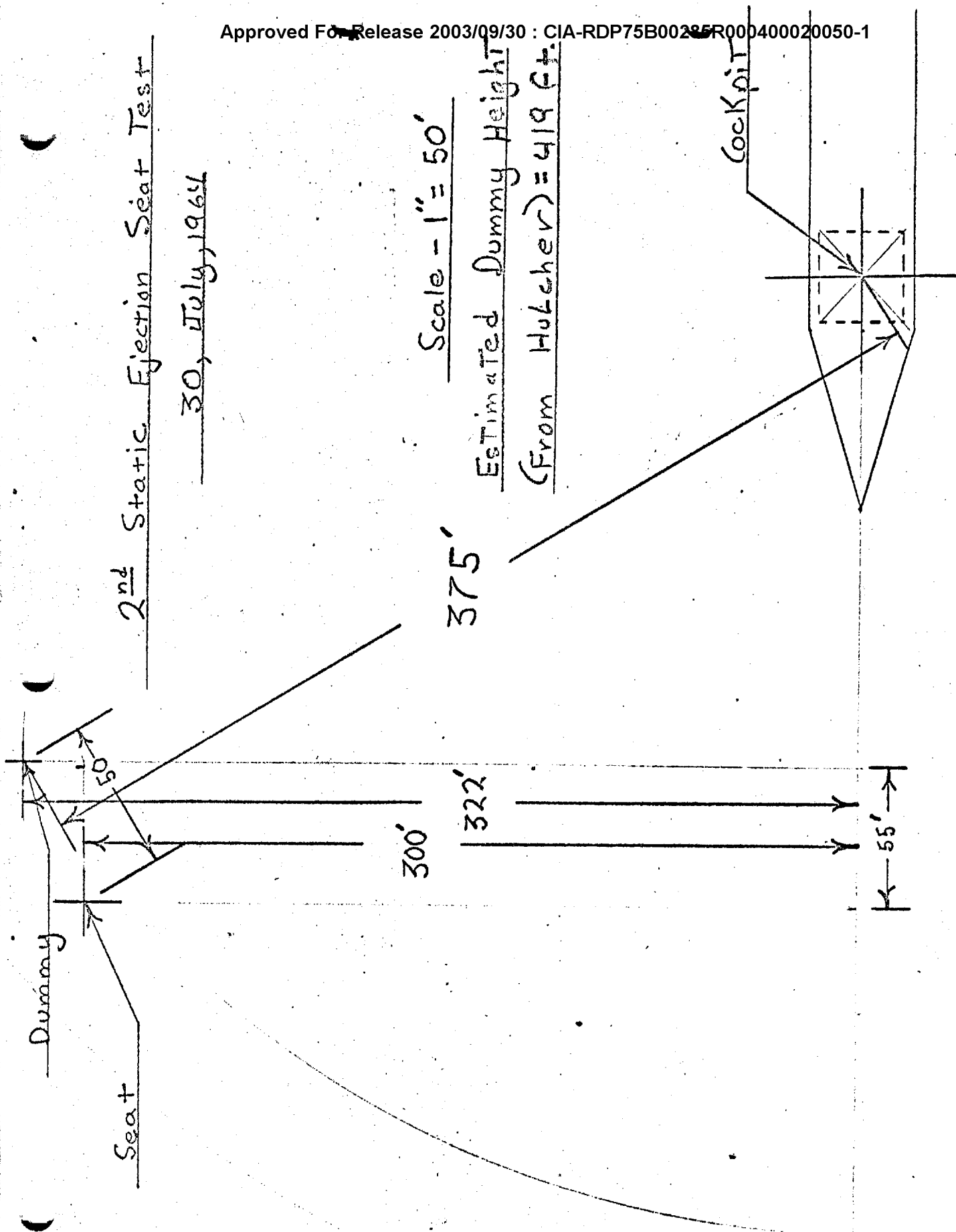
Estimated Dummy Height  
(From Movies) = 300 FT.

# 2nd Static Ejection Seat Test

30, July, 1964

Scale - 1" = 50'

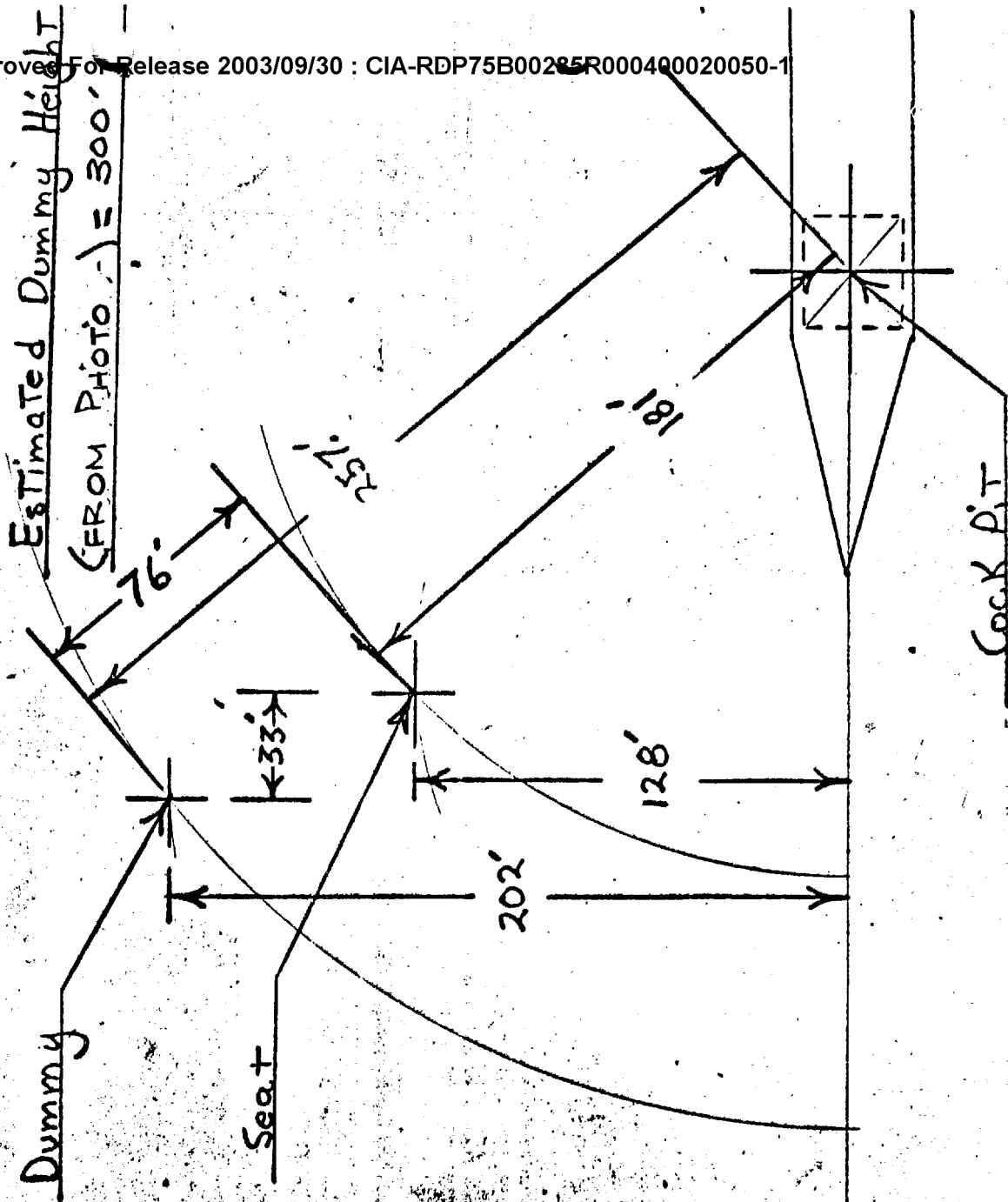
Estimated Dummy Height  
(From Holcher) = 419 C.F.



# 3rd Static Ejection Seat Test

6, Aug, 1964

Scale - 1" = 50'  
Estimated Dummy Height  
(FROM PHOTO) = 300'







OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 6 6 4 3 (L)-4-62      DATE: 4-4-62  
SUBJ:

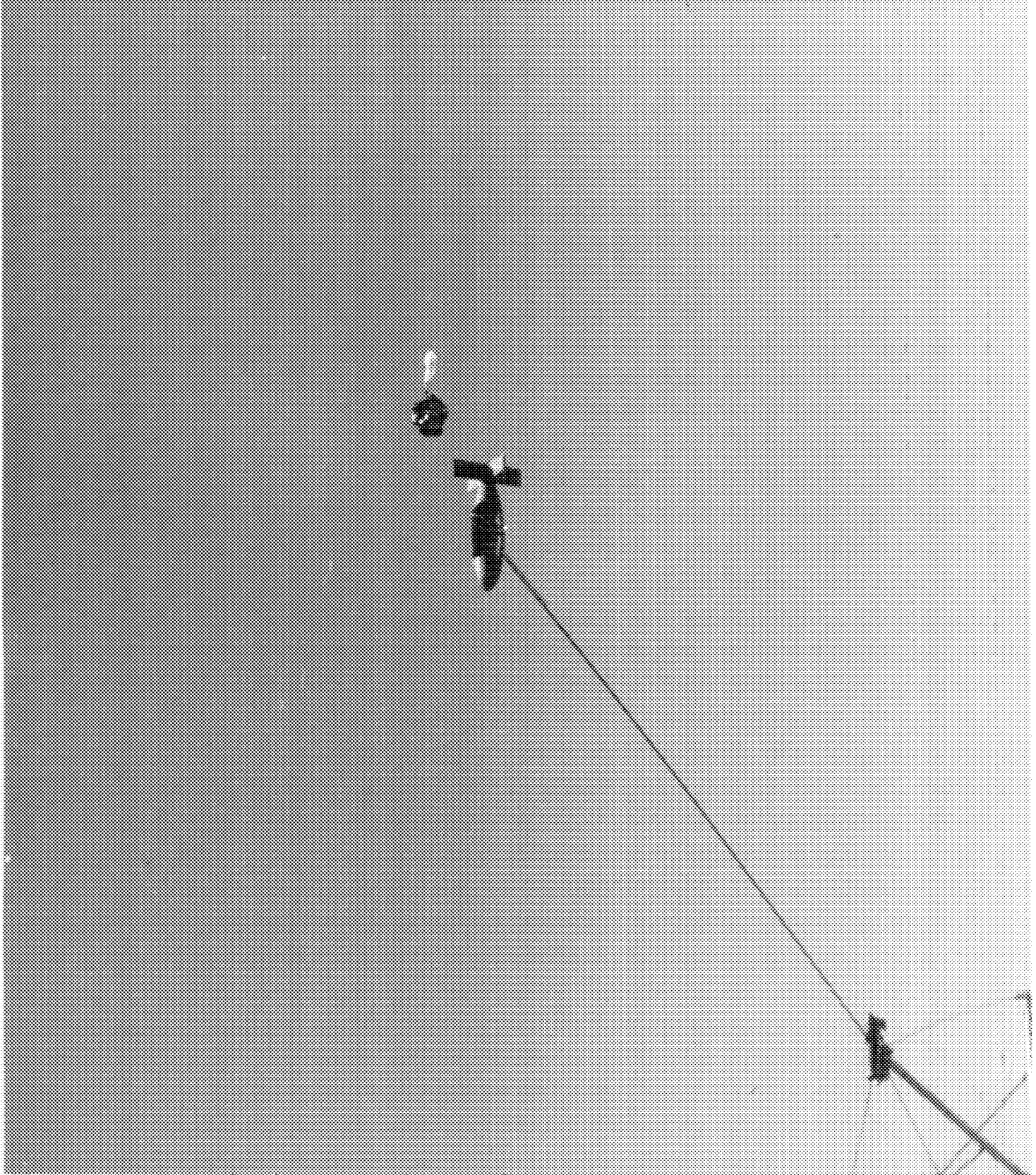
FTL-232 RE-ENTRANT MULTISTAGE PARACHUTE,  
DROP TEST 0549F62 MERITOR TEST AT 270  
KNOTS, 2.25 FABRIC.

SEQUENCE STILL G/A, 30 FRS. (70MM, FRAMES  
71 THRU 120)

FRAME NO.

CODE: A/PLC

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

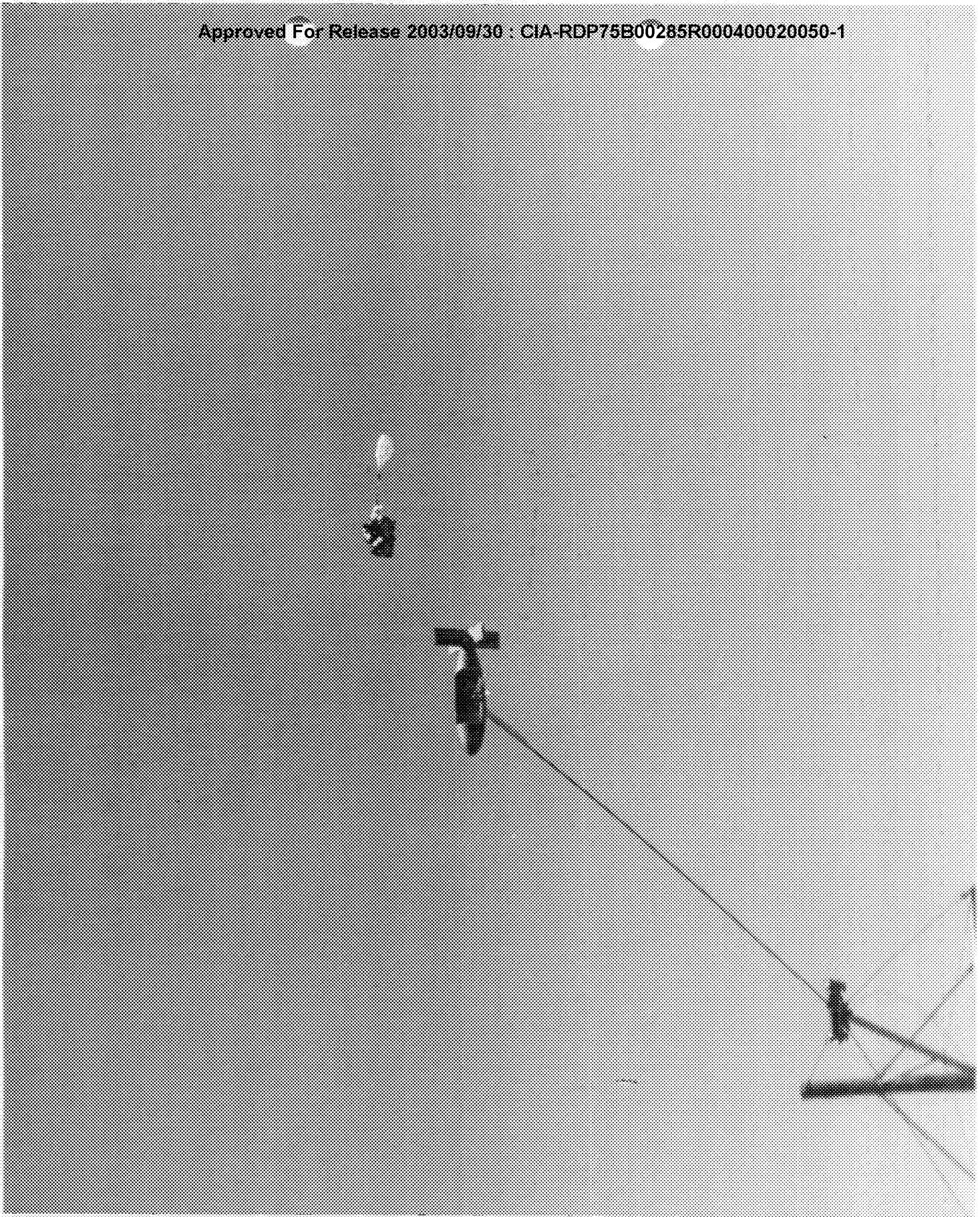
NEG. NO: LAP-6 5 4 3 (L)-4-62      DATE: 4-4-62  
SUBJ:

FTL-232 WAS AERIAL MULTISTAGE PARACHUTE,  
DROF TEST 0549F68 MILITARY TST AT 270  
KNOTS, 2.25 FABRIC.

SP. UNCE STILL G/A, 30 FES. (70M, FRAMLS  
77 THRU 120)

FRAM. NO.

CODE: 1/PAC  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY REPRODUCED

NEG. NO.: IAP- 6 6 4 3 (L)-4-62  
SUBJ:

DATE: 4-4-62

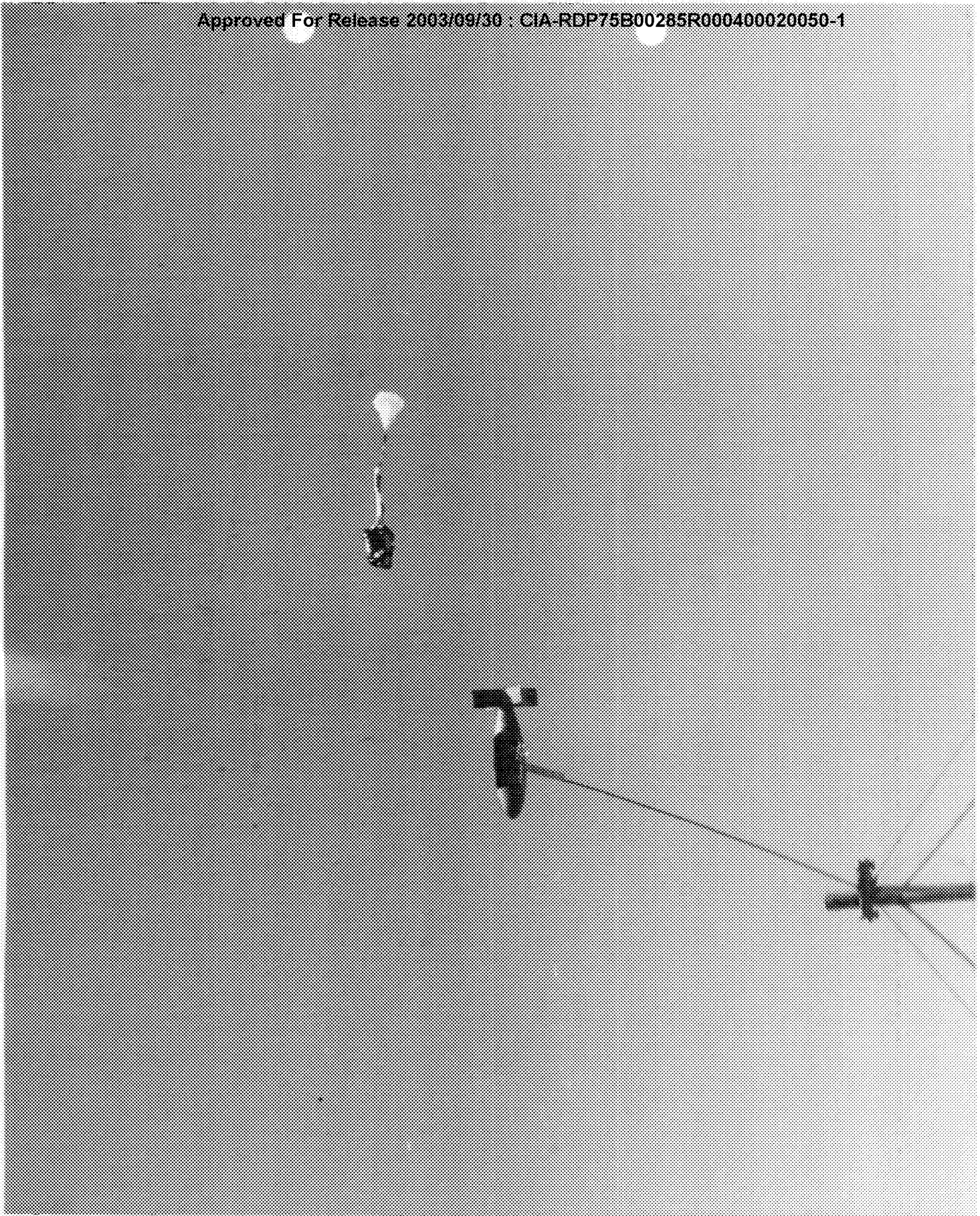
FTI-232 (U.S. NAVAL AVIATION) ST. G. A. SCHUTE,  
DROP TEST, U549F62, AIRCRAFT-T ST AT 270  
KNOTS, 2.25 FABRIC.  
ST. J. NICE STILL G/A, 30 FES. (7044, FRAMES  
#1 THRU #20)

FRAME NO.

CODE: N/PJ

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

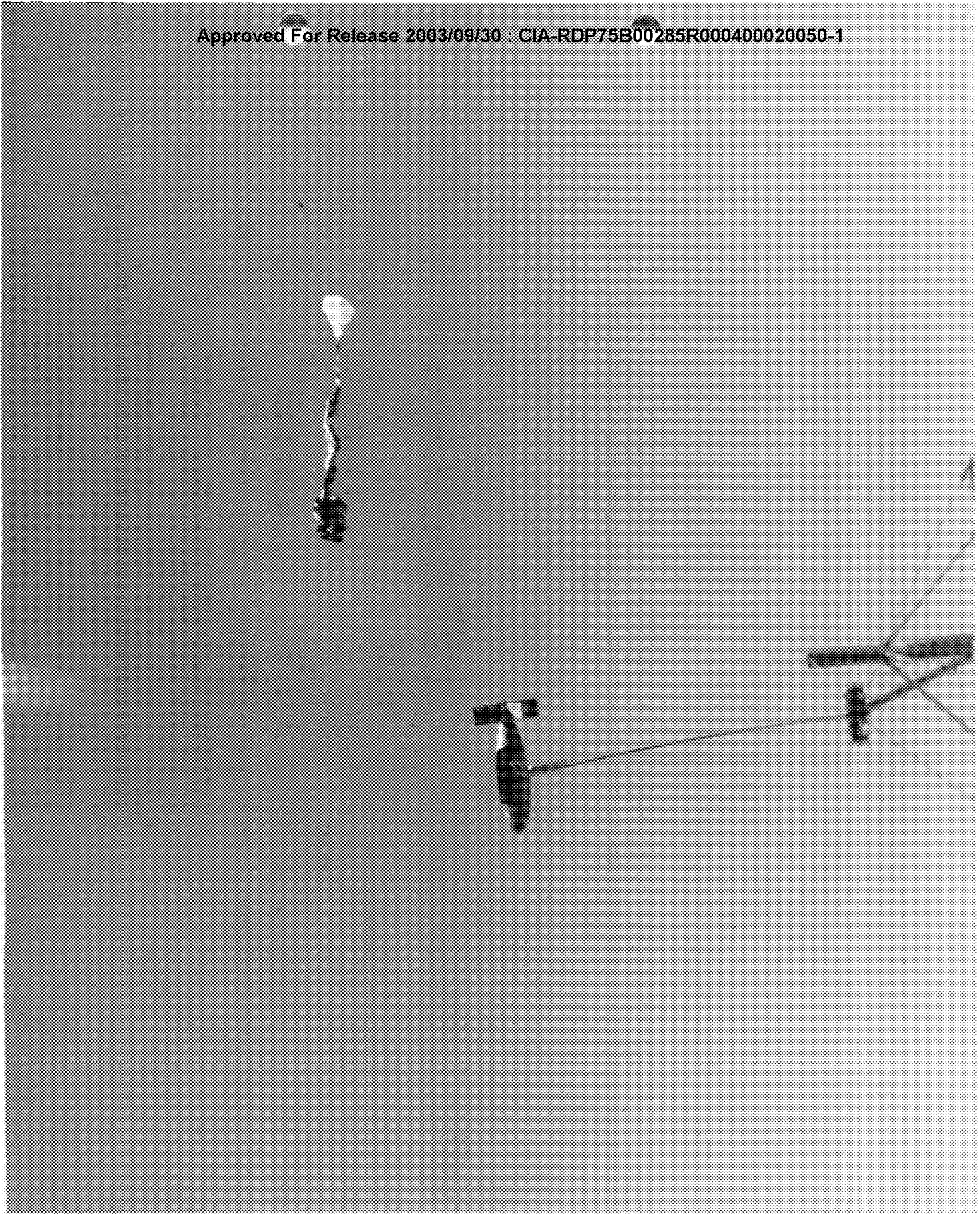
NEG. NO: LAP- 6 6 4 3 (L)-4-62      DATE: 4-4-62  
SUBJ:

FTL-232 MC MOUNTAIN MULTISTAGE PARACHUTE  
DROF TEST 0549F62 MILITARY TEST AT 270  
KNOTS, 2.25 FABRIC.

SOURCE STILL G/A, 30 FES. (70M, FRANKS  
IN THRU 720)

FRANK NO.

CODE: N/PLU  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 6 6 4 3 (L)-4-62 DATE: 4-4-62

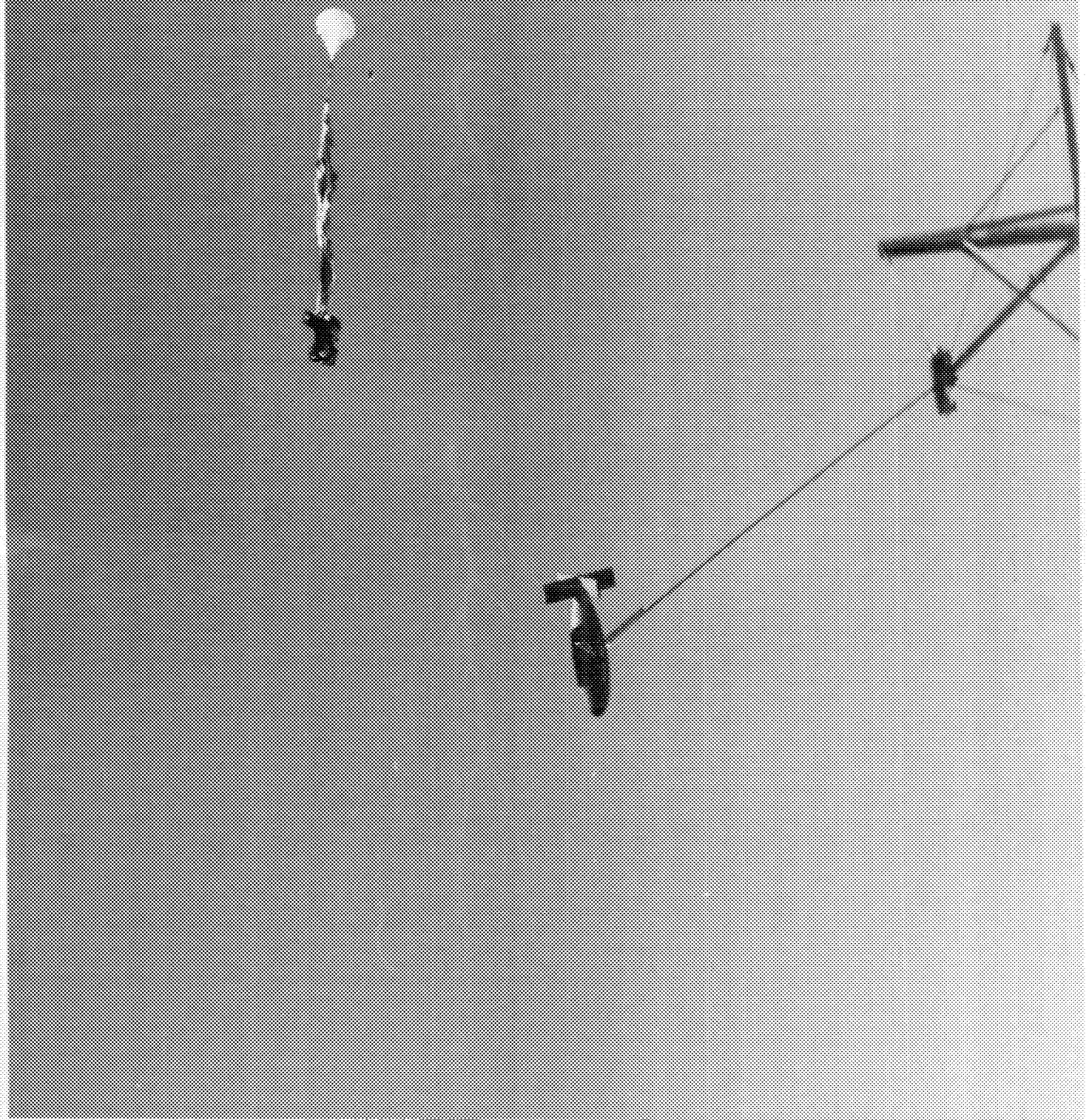
SUBJ:

FTL-232 - EXPERIMENTAL MULTISTAGE PARACHUTE  
DROP TEST - 0549F68 - PARACHUTE TEST AT 270  
KNOTS, 2.25 FABRIC.

ST. DUNCAN STILL G/A, 30 FES. (70MM, FRAMLS  
71 THRU 720)

FRAM. NO.

4  
800C: 1/PLC  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



NOT FOR PUBLICATION

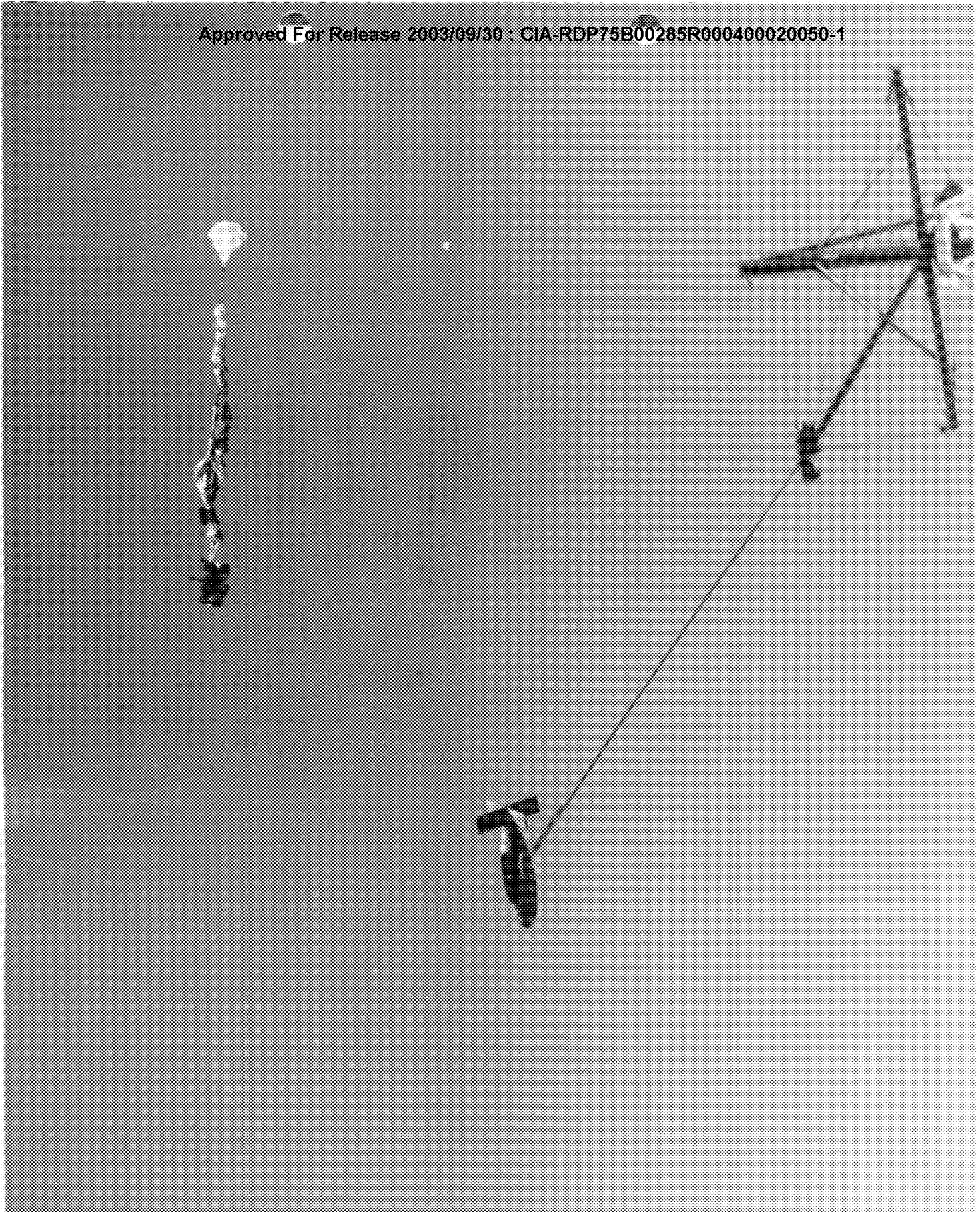
SUBJ

KNOTS 2025 FABRIC

7.7 THRU 11.20)

000: 4/25

EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 6 8 4 3 (L)-4-62      DATE: 4-4-62  
SUBJ:

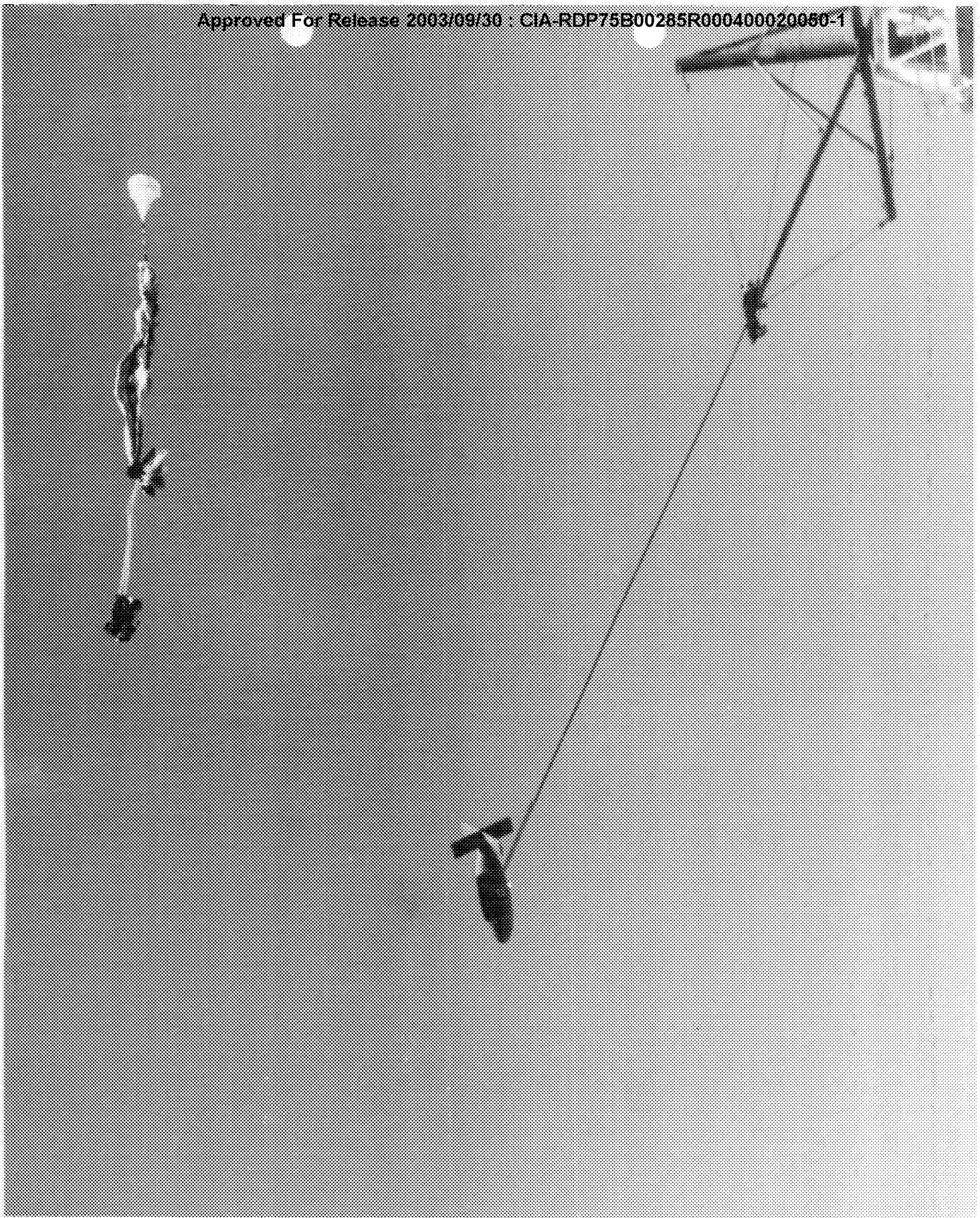
FTL-232      INITIAL MULTISTAGE PARACHUTE,  
DROP TEST      549F62      MILLION-ER T ST AT 270  
KNOTS, 25 F-ERIC.

SEQUENCE STILL G/A, 30 FPS. (70M, FRAMES  
71 THRU 120)

FRAM NO.

COOL: A/PLC  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO.: LAP- 6 8 4 3 (L)-4-62      DATE: 4-4-62  
SUBJ:

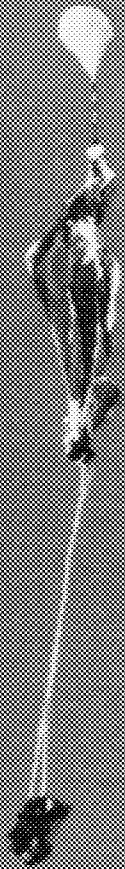
FTI-232 AIRCRAFT MULTISTAGE PARACHUTE,  
DROP TEST 0549768 MILITARY TEST AT 270  
KNOTS, 2.25 FABRIC.

SUNNED STILL Q/A, 30 FES. (70M, FRAMLS  
71 THRU 720)

FRAME NO.

CODE: -N/PAC  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





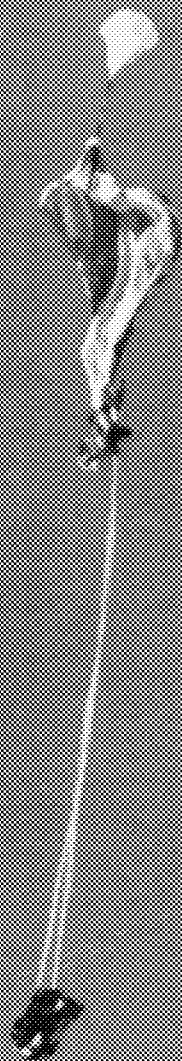
OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG NO: 148 6 5 4 3 (L)-4-62 DATE: 4-4-62  
SUBJ:

PTL-232 1ST INFANTRY DIVISIONAL MULTISTAGE PARACHUTE,  
DROF TEST 0549F68 AIRBORNE T ST AT-270  
KNOWN 2.25 FABRIC  
SOURCE STILL G/A, 30 FEB. (70M, FRANKS  
& NEW 720)

FRANK 30.

COLL: 12/PM  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 6 8 3 (L)-4-62      DATE: 4-4-62  
SUBJ:

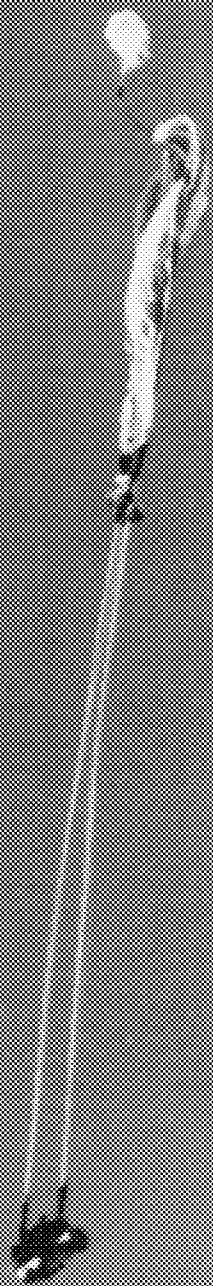
FTL-232 AIR INFANTAL MULTISTAG. PARACHUTE,  
DROP TEST 0549F68 AIRFLOWER TEST AT 270  
KNOTS, 2.25 FABRIC.

SUNJUCE STILL G/A, 30 FES. (70MM, FRAMES  
71 THRU 720)

FRAME NO. 9

COST: 1/PLU  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

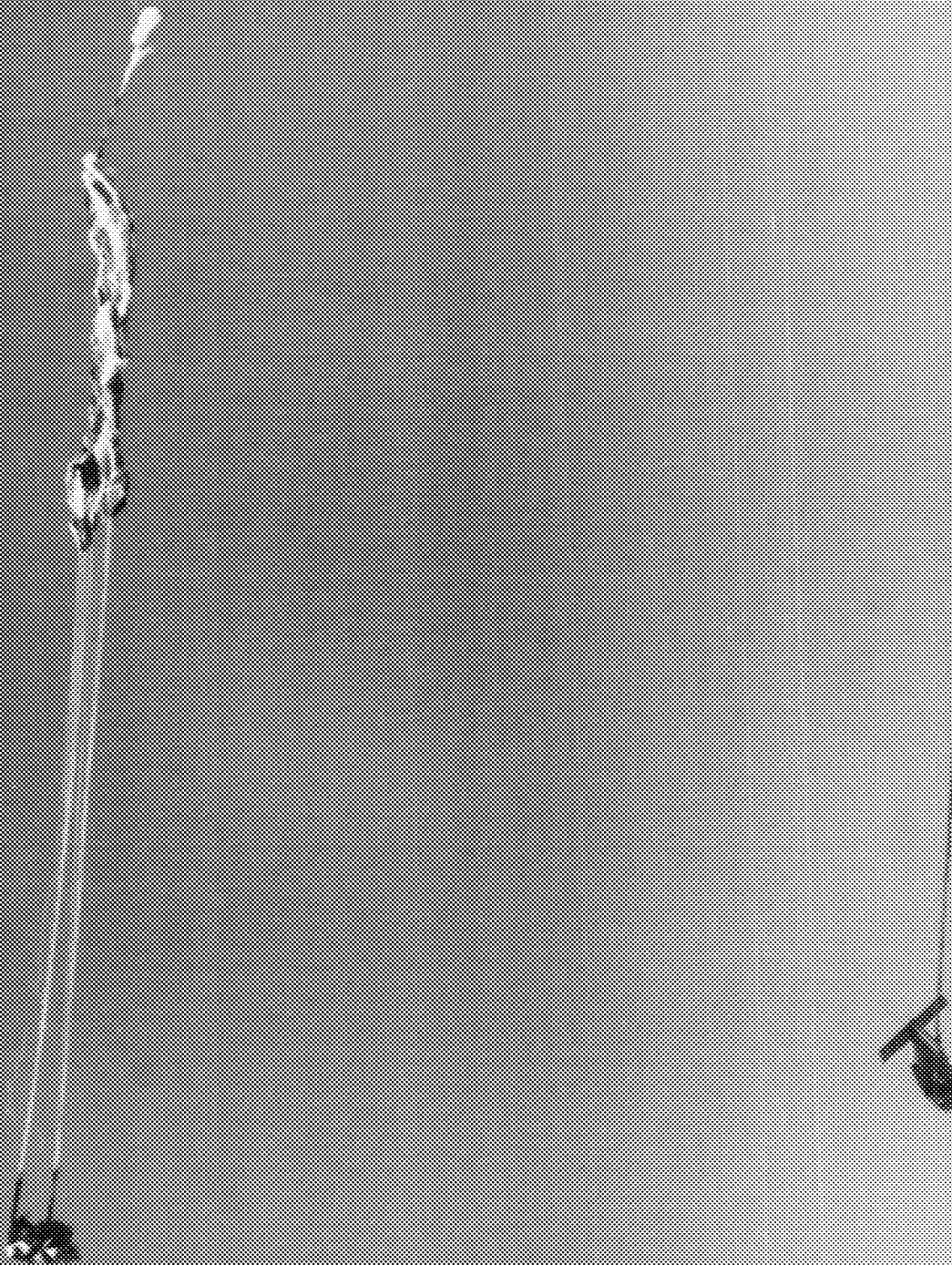
NTG NO: IAP- 6 6 4 3 (i)-4-62      DATE: 4-4-62  
SUBJ:

FTI-232      W. H. NEAL, WILSON, G. E. ACHUTE,  
DUP TEST 0549662      AIRBORNE TEST AT 270  
KNOTS, 2.25 FABRIC.

SUNNICE STILL G/A, 30 FPS. (TOW, FRAMES  
71 THRU 80)

FRAME NO.

U. S. NAVAL PHOTOGRAPH FACILITY  
IN CHARGE, CHIEF





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

REF NO: LAP- 6 6 4 3 (A)-4-62 DATE: 4-4-62  
SUBJ:

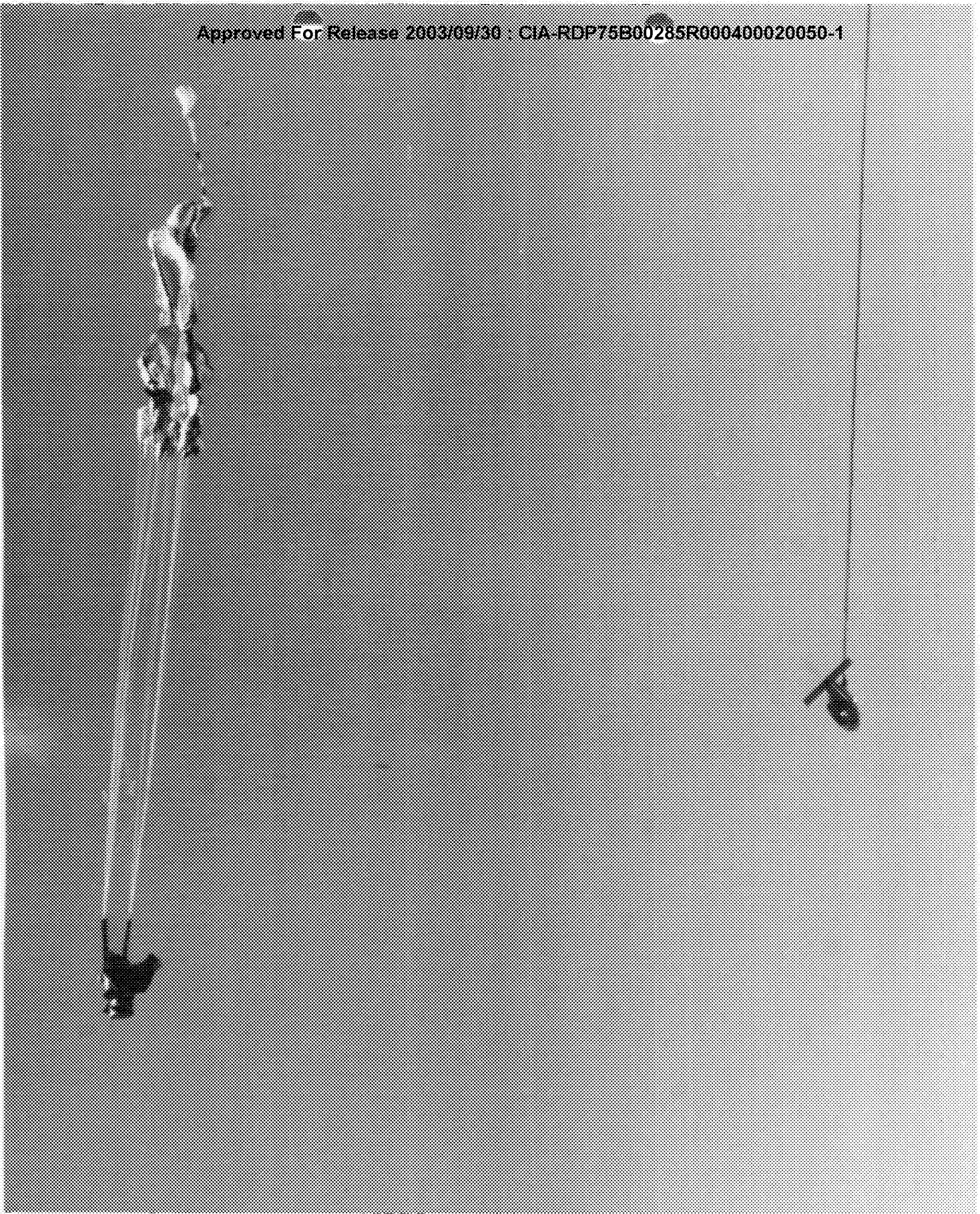
FTI-232 1000 HOURS  
DROP TEST 054966 HIRLANDER T. ST. AT 270  
KNOTS, 2.25 FABRIC

ST. JINCE STILL G/A, 30 FES. (70M, FRAMLS  
71 THRU 720)

FRAM NO.

11

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

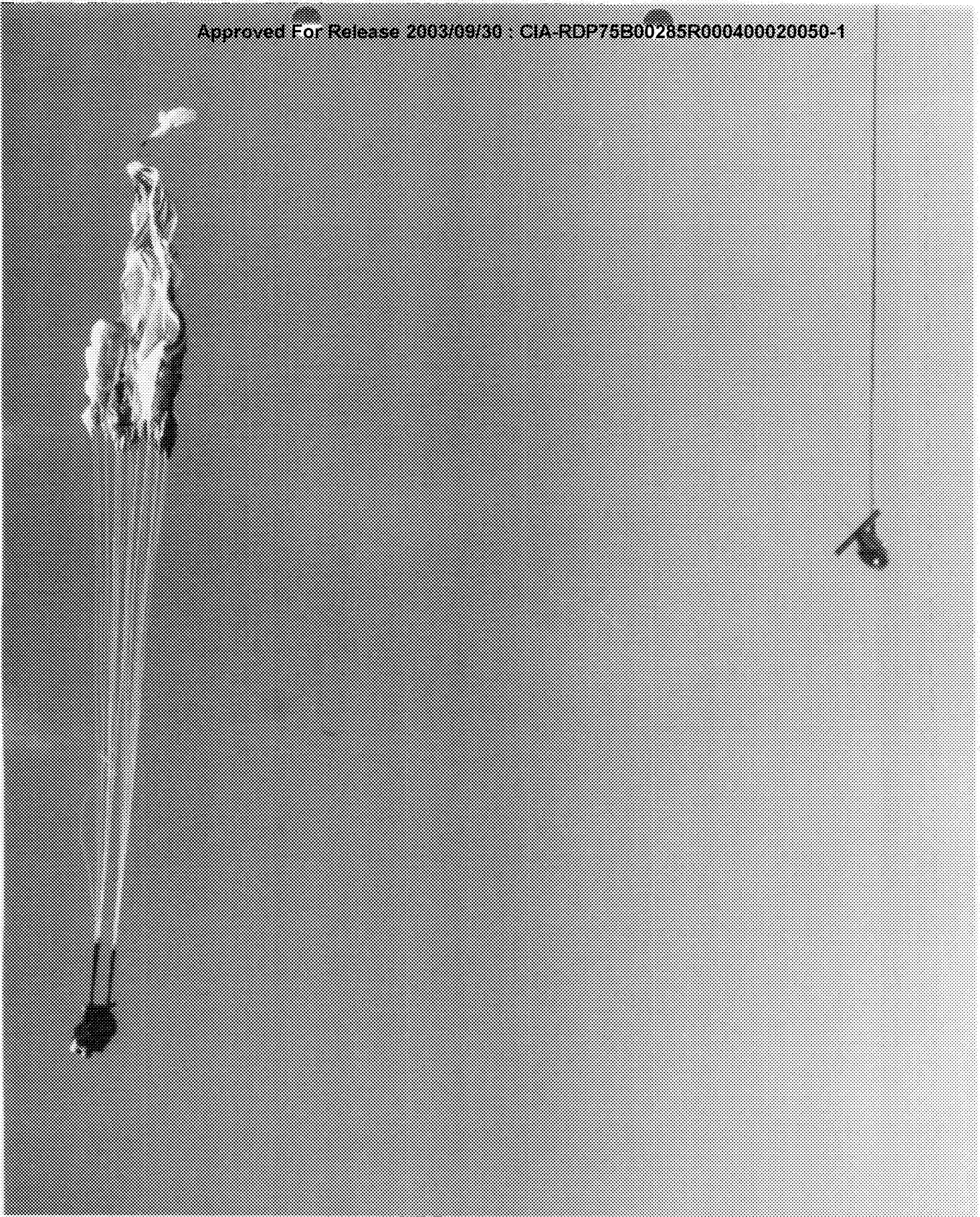
C. NO: LAP- 6 8 4 3 (L)-4-62 DATE: 4-4-62  
SUBJ:

FTL-232 US NAVAL MULTISTAGE PARACHUTE,  
DROP TEST 0549F68 MULTISTAGE TEST AT 270  
KNOTS, 2.25 FABRIC.

SEQUENCE STILL G/A, 30 FPS. (70MM, FRAMES  
71 THRU 120)

FRAM. NO.

CODE: 2/PIC  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY REQUESTED

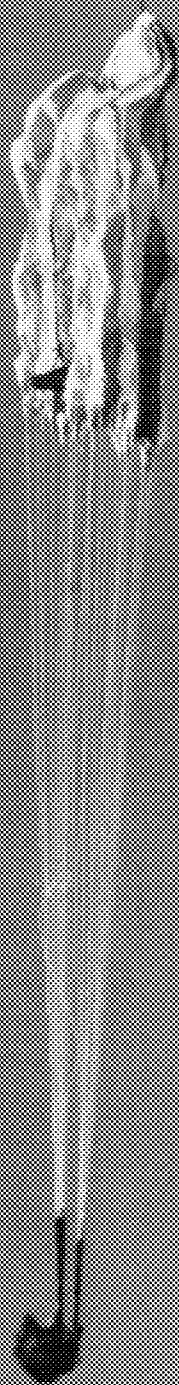
NTG NO: LAP- 6 6 4 3 (L)-4-62 DATE: 4-4-62

SUBJ:

FTI-232, 1st NDB, MULTIST-G, FA, ACHUT,  
DROF TEST 0549F62, AIRPORTER TEST AT 220  
KNOTS, 2.25 F. BRIC.  
SUNCE STILL G/A, 30 FBS. (70W, FRAMES  
1 THRU 20)

FRATE. NO. 13 CODE: N/PLU  
U. S. NAVY PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: IAP- 6 6 4 3 (11)-4-62 DATE: 4-4-62  
SUBJ:

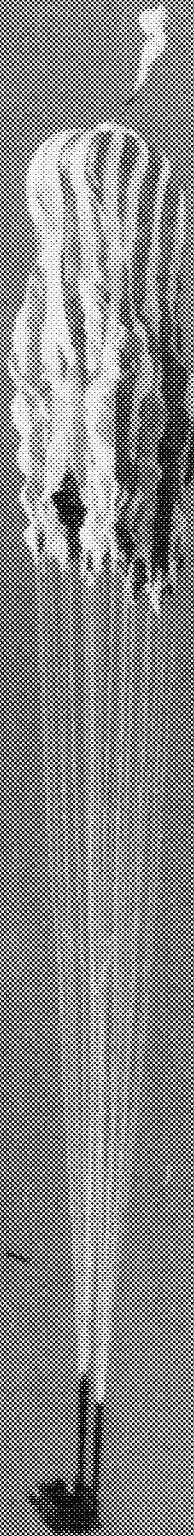
FTL-232 USE AIRLIFTAL FULTISTAG. PARACHUTE,  
DROF TEST 4549F68. HIRIDDER TEST AT 230  
KNOTS, 2.25 F. BRIC.  
ST. JENCE STILL G/A, 30 FES. (70M, FRAMES  
7. THRU 20)

FRAME NO.

CODE: 4/PL

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



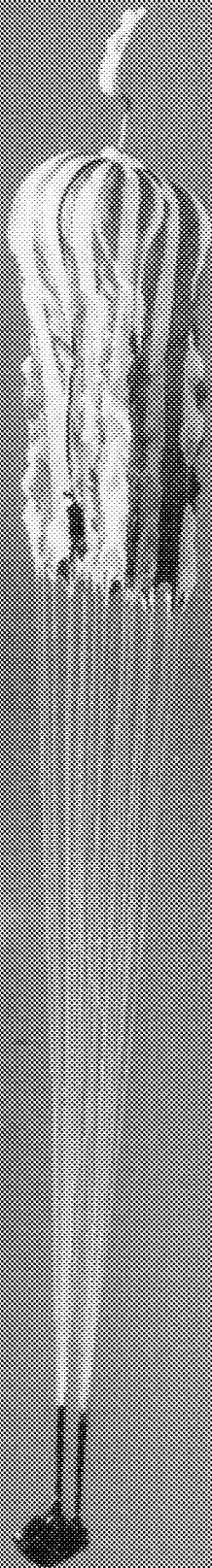


OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

REF. NO: LAP- 6 6 4 3. (1) 4-62      DATE: 4-4-62  
SUBJ:

FTL-232      U.S. NAVAL PARACHUTE FACILITY,  
DRUT TEST 0549P62      AIRPORTER TEST AT 270  
KNOTS, 2.25 FABRIC.  
S. J. MOE STILL C/A, 30 FRS. (704, FRAMES  
71 THRU 720)

FRAME NO. 15      CONT: 2/PLC  
U. S. NAVAL PARACHUTE FACILITY  
FT. CENTO, CALIFORNIA



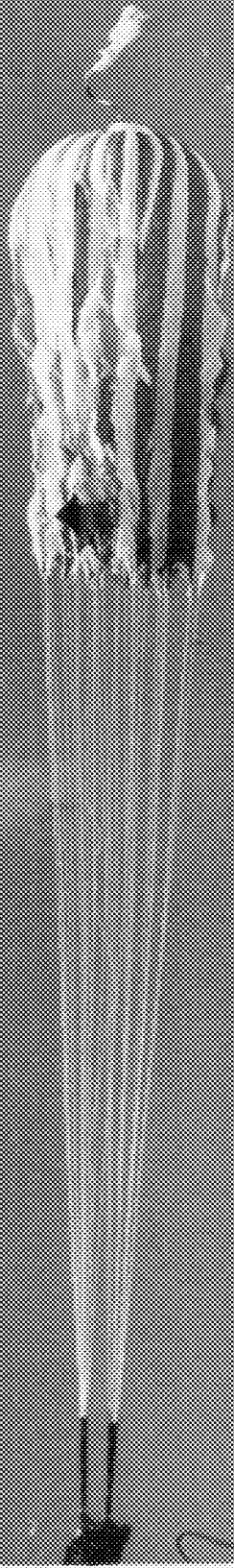
SPECIAL AG. 3. NAME: FRANKLIN  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NET. NO: LAP- 6 6 4 3 (L)-4-62 . DATE: 4-4-62  
SUBJ:

FTI-232 . . . . . NTAL . . . . . FA. ACHUTE,  
DRO TEST . . . . . 154966 . . . . . 1 ST AT 270  
KNOTS, 2.25 F. BRIC.  
S. U. NC. STILL G/A, 30 FRS. (70M, FRANKS  
72 THRU 720)

FRANK NO: . . . . .  
CODE: A/PLC  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

DATE: 4-4-62

REF NO: LAR-6043 (L)-4-62

SUBJ:

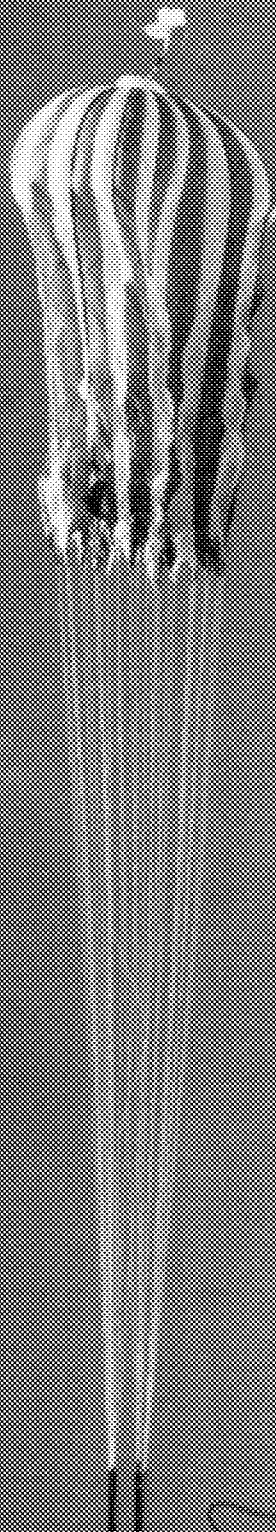
FTI-232 (L) NTL MULTISTAGE, PA. ACHUT.,  
DROF TEST 0549868 AIRBORNE T ST AT 270  
KNOTS, 2.25 FABRIC.  
S. H. NGI STILL C/A, 30 FPS. (70M, FRAMS  
17 THRU #20)

FRAM. NO.

CODE: 17

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA

4/1/62





OFFICIAL U. S. NAVY INFORMATION  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 6 6 4 3 (L)-4-62  
SUBJ:

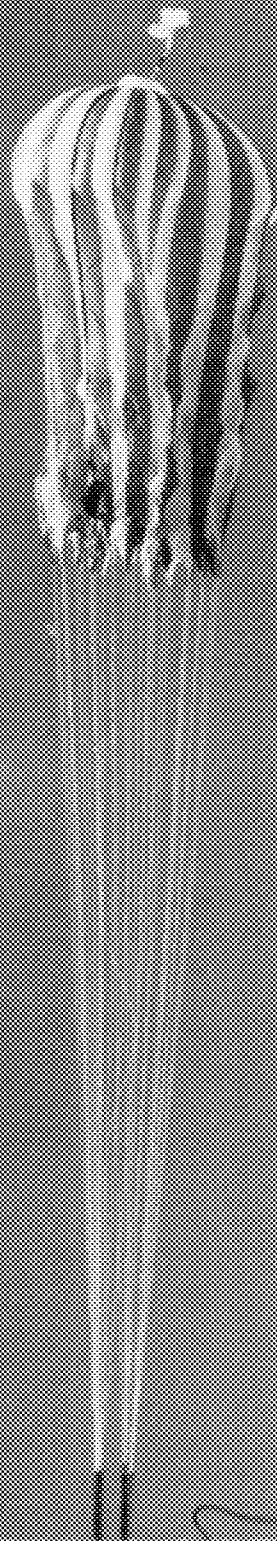
DATE: 4-4-62

FTL-232 AX-119 LANTAL MULTISTAGE PARACHUTE,  
DROP TEST 0549F62 WHIRLWIND TEST AT 270  
KNOTS, 2.25 FABRIC.  
SEQUENCE STILL G/A, 30 FPS. (TOM, FRANKS  
#1 THRU #20)

FRAME NO. 18

CODE: 4/PL

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 6 6 4 3 (L)-4-62

DATE: 4-4-62

SUBJ:

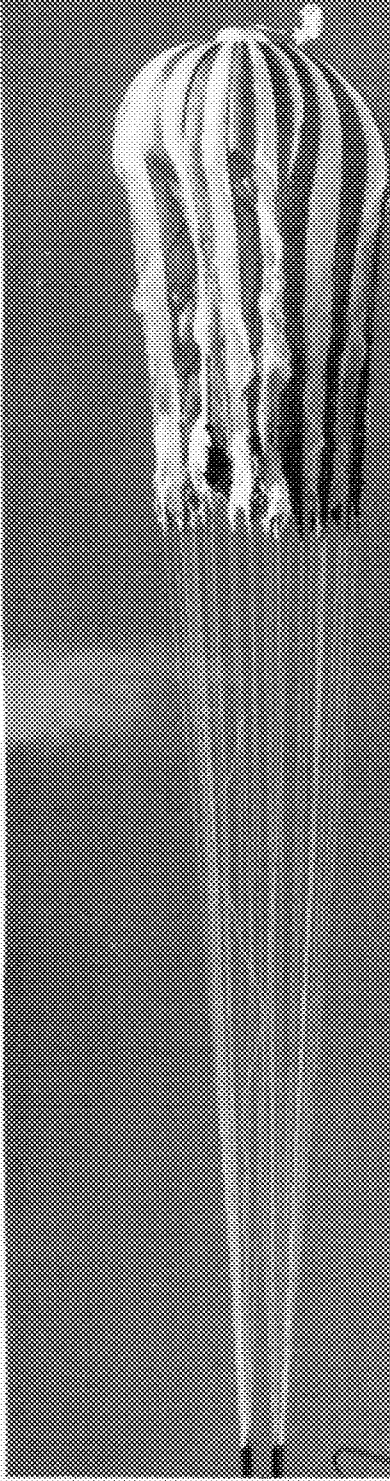
FTL-232 ACCIDENTAL MULTISTAGE PARACHUTE,  
DROP TEST 0549F62 WHIRLWIND TEST AT 270  
KNOTS, 2.25 FABRIC.

SEQUENCE STILL G/A, 30 FBS. (70MM, FRAMES  
#1 THRU #20)

FRAME NO. \_\_\_\_\_

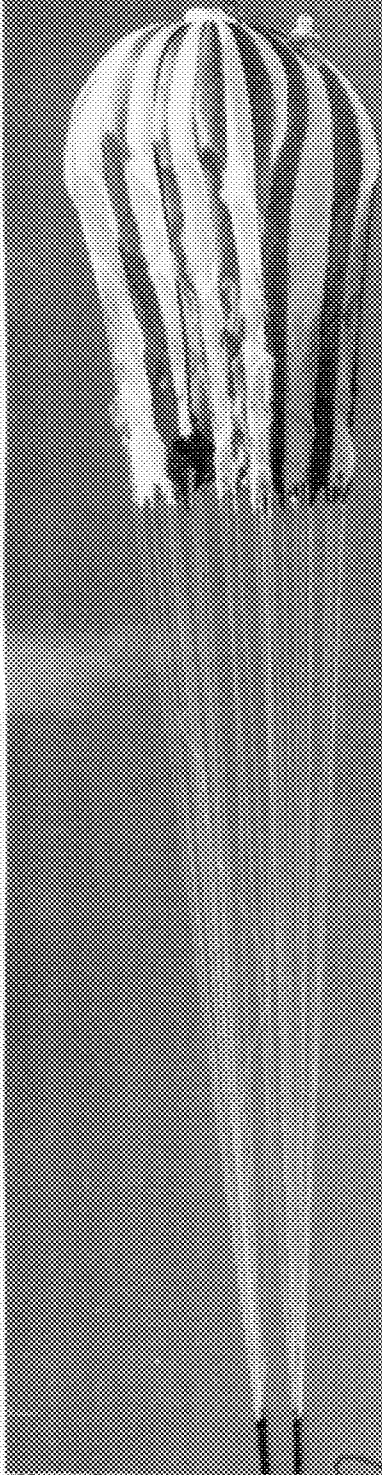
COOL: 4/PLD

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



U. S. NAVY PARACHUTE FACILITY  
FT. CANTO, CALIFORNIA  
CODE: 1/110  
FRAME NO. 19  
SUBJECT: 12. THRU #20)  
S. J. NANCE STILL G/A, 30 PPS. (70M, FRALS  
KNOTS, 2/23 FABRIC.  
DEOP TEST 0549P68 WHIRLWIND-ER TEST AT 270  
FTL-232, 1000 HOURS, MULTISTAGE, PARACHUTE,  
SUBJ:  
NO: LAF- 6 6 4 3 (L)-4-62  
DATE: 4-4-62  
OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY REQUESTED





OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

FIG. NO: LAP- 6 6 4 3 (L)-4-62

DATE: 4-4-62

SUBJ:

FTL-232 AMBULANT MULTISTAGE PARACHUTE,  
DROP TEST 0549P62 WHIRLWIND TEST AT 270  
KNOTS, 2.25 FABRIC.

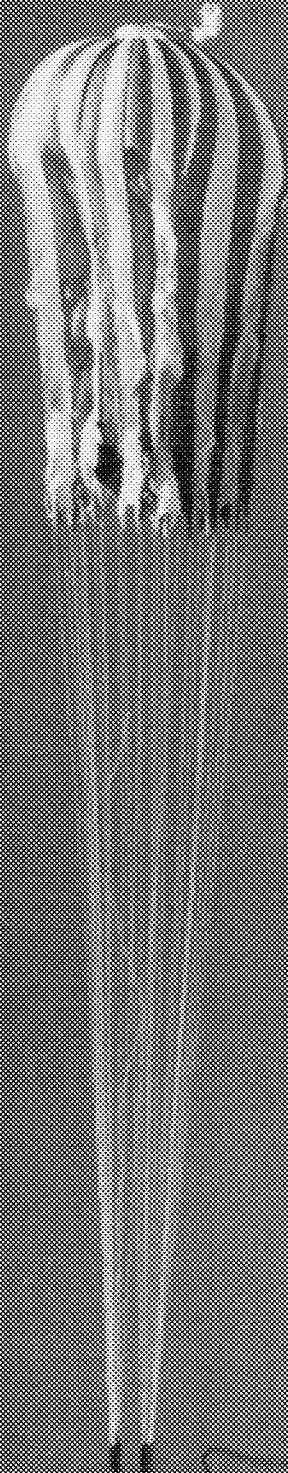
SEQUENCE STILL G/A, 30 FBS. (70MM, FRAMES  
#1 THRU #20)

FRAME NO. \_\_\_\_\_

20

CODE: 1/PLC

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NIG. NO: LAP- 6 6 4 3 (L)-4-62

DATE: 4-4-62

SUBJ:

FTY-22 AXIAL MENTAL MULTISTAGE PARACHUTE,  
DROPT TEST 05/9/62 WHIRLTOWER TEST AT 270  
KNOTS, 2,25 FABRIC.

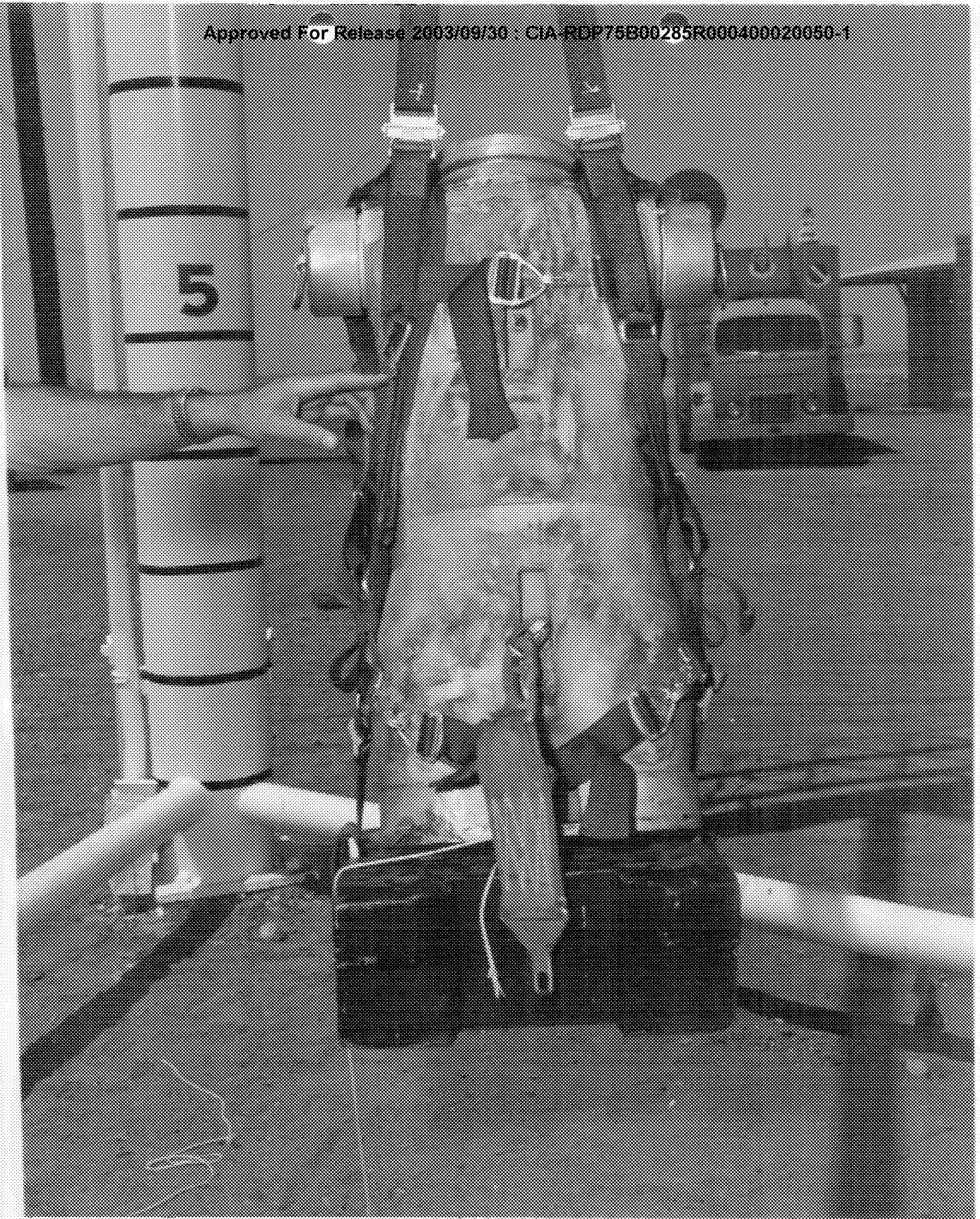
S. U NC STILL G/A, 30 FPS. (70MM, FRAMES  
#1 THRU 20)

FILE NO.

CODE: A/PLG

U. S. NAVAL PARACHUTE FACILITY  
P.O. BOX, CALIFORNIA







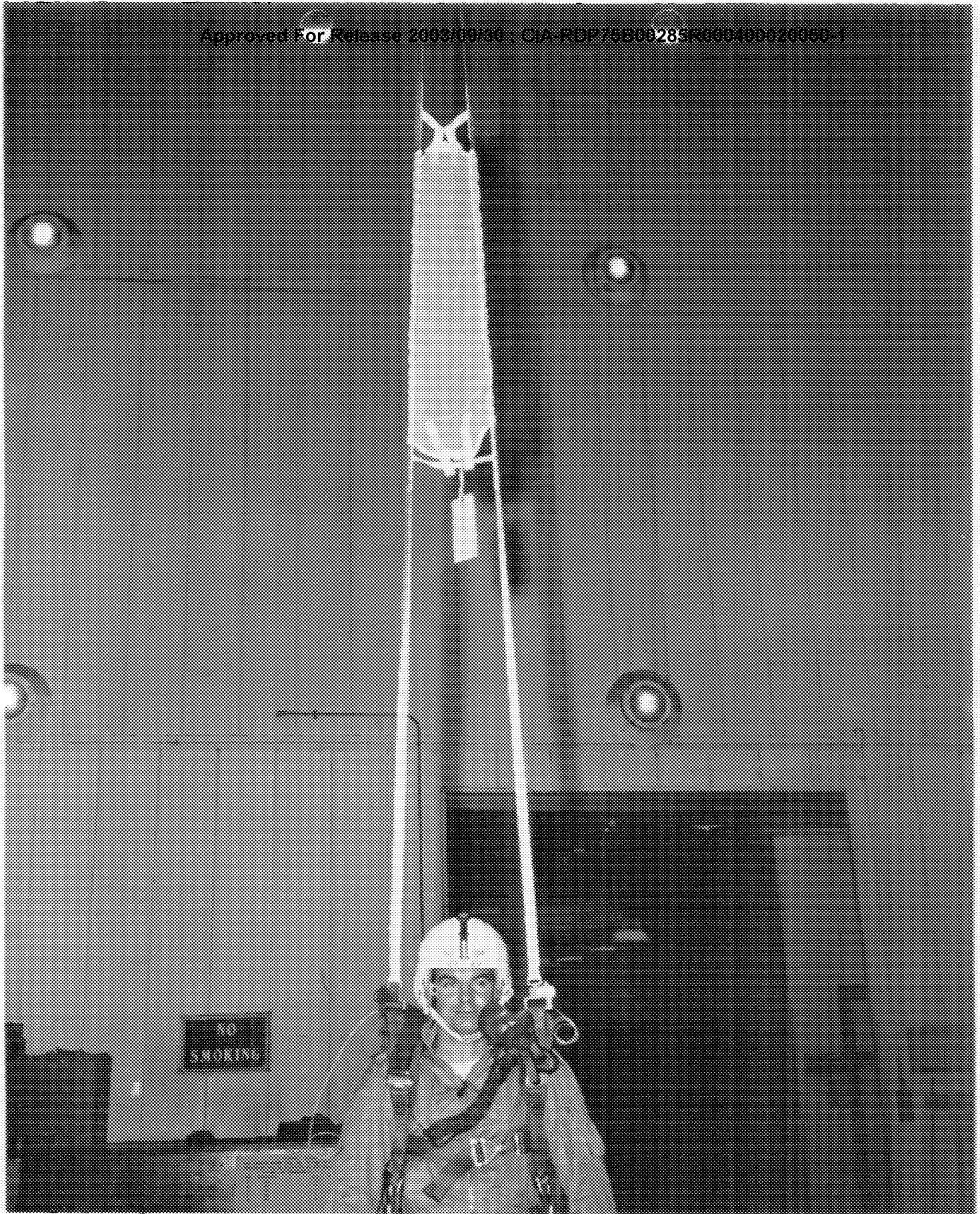
OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

NEG. NO: LAP- 7925 (L)-7-62 DATE: 7-25-62

SUBJ: FTL-232 EXPERIMENTAL PERSONNEL PA-  
RACHUTE (MULTISTAGE), - HARNESS  
STRENGTH TESTS.

HARNESS, SHOWING RESULT OF 12,200  
LB FORCE APPLIED AT DROP TOWER  
TEST #1373F62.

CODE: A/T2  
U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA



OFFICIAL U. S. NAVY PHOTOGRAPH  
NOT FOR PUBLICATION  
UNLESS OFFICIALLY RELEASED

REF. NO: LAP-  
SUBJ:

6419

(L)-2-62 DATE: 2-8-62

FTL-232 EX. EQUIPMENT/L. MULTISTAGE PER-  
SONNEL PARACHUTE ASSEMBLY SUSPENSION  
TOWER

CODE: 1/P7

U. S. NAVAL PARACHUTE FACILITY  
EL CENTRO, CALIFORNIA

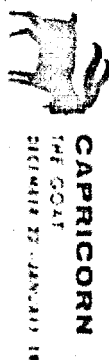


OFFICIAL NAVY PHOTOGRAPH  
NOT TO BE USED FOR PROPAGANDA  
BY THE ORDER OF THE  
CHIEF OF NAVAL OPERATIONS

REC. NO. LAP. 1541(L)-4-58 DATE: 4-7-58  
SUB E: FTL-56A MULTI-STAGE PARACHUTE MODEL 1-7  
DROP SEQUENCE BOARD. COMPOSITE

CODE: C11  
NAVAL PARACHUTE UNIT  
NAAS, EL CENTRO, CALIF.



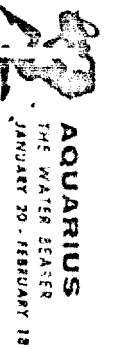


# JANUARY

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

2	3	4	5	6
9	10	11	12	13
15	16	17	18	19
22	23	24	25	26
29	30	31		
TEN Dummy Drops of Parachute Configuration at El Centro Calif.				
SIX on the DECK - low SPEED Ejections at the AREA				
JAN 23 <sup>rd</sup> thru FEBRUARY 3 <sup>rd</sup>				
Mock up at contractors of Pressure Suit Parachute and Survival Kit Assy.				

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1



# FEBRUARY

Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1

5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				
Approved For Release 2003/09/30 : CIA-RDP75B00285R000400020050-1						

ST. VALENTINE'S DAY

ASH WEDNESDAY

WASHINGTON'S BIRTHDAY

Calibration run and four sled runs at Edwards AFB

February 20th thru March 3rd

Twenty live jumps with new parachute at El Centro, Calif.

FEBRUARY 6th thru FEBRUARY 17th